

SOIL CHARACTERIZATION AT
THE 317 AREA
PROGRESS REPORT NO. 2

PREPARED FOR:

BERMITE DIVISION
WHITTAKER CORPORATION
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I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of California.



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7-21-88

California Registration No. 41317

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SOIL CHARACTERIZATION AT
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I. Introduction

The Bermite Division of Whittaker Corporation discontinued operations effective April 3, 1987. In April 1987, a Revised RCRA Closure Plan was submitted to the California Department of Health Services ("DHS") and to the U.S. Environmental Protection Agency ("EPA") Region IX for approval. The DHS and EPA approved the Closure Plan, with modifications, via their letter of transmittal dated December 28, 1987. The plan specifies the activities required for closure of the various RCRA units which were present on the facility. This Progress Report of soil characterization at the RCRA unit: 317 Area, describes the procedures and methods, presents the characterization results, and conclusions and recommendations based on the work performed.

Pursuant to the approved Closure Plan Modifications, an initial work plan for soils investigation and removal at the 317 former surface impoundment was implemented for the purpose of characterizing the vertical and horizontal extent of organic compounds. A Progress Report documenting the results of the work plan was submitted to the DHS and EPA in March, 1988. That report, titled "Progress Report of Soil Characterization at the 317 Area", is incorporated by reference into this report. Subsequently a new work plan for further characterization of the soils at the 317 Area was submitted to the DHS and EPA for review and approval. A copy of the new work plan is included as Appendix A. Approval to excavate soils as part of the characterization was granted by the South Coast Air Quality Management District (SCAQMD). The SCAQMD letter granting a conditional exemption to District Rule 1150 (C) (4) is included as Appendix B.

After initiation of the soil characterization activities, a request was made to DHS by Wenck Associates, Inc. to modify the new work plan. A copy of the agreement letter, dated May 4, 1988, is included as Appendix C.

In accordance with the new work plan, two trenches, each with bottom dimensions of approximately 150 feet long, by 10 feet wide, by 30 feet deep have been excavated. Along with the area excavated during the initial characterization and those areas excavated to meet side slope requirements and to provide trench access, a triangular area approximately 225 feet on a side has been excavated to a depth of approximately 30 feet. The perimeter boundaries of this area can be seen on Figure 1.

All soils have been excavated in a manner which allowed characterization of the soils as to their content of volatile organic compounds (VOC). The soils were field analyzed with a portable organic vapor analyzer (OVA) in accordance with prescribed procedures and soil samples were taken for laboratory analysis of organic compounds by EPA Method 8240.

In addition to the laboratory and field VOC analysis of the excavated soils, and as directed by the DHS in the modifications to the new work plan, soil samples were also analyzed for semi-volatile organic compounds or Base-Neutral-Acids by EPA Method 8270.

All excavated soils have been placed in piles on-site. Those soils exhibiting VOC as determined by the field OVA readings initially were thin spread on asphalt pads to volatize any VOC. After removal of the VOC, the soils were then added to the soil piles.

This Progress Report describes the excavation and sampling procedures followed during this further characterization work. The characterization data and results are presented to describe

the known vertical and horizontal extent of VOC containing soils at the 317 Area. As a result of this characterization, remediation of the removed soils containing VOC has been successfully accomplished. Following the presentation of the characterization data and results, a proposed system for verification borings and gas probes to define the vertical extent is presented.

II. PROCEDURES

A. Preparation

The characterization work commenced on April 18, 1988. The field work was completed on June 3, 1988.

Prior to characterizing the soils, the top two feet of soil and asphalt were removed from the 317 Area. This allowed the area to be graded to a level surface for purposes of depth and width control of the excavation.

Swales and ditches for controlling run-on and run-off were constructed around the area to be excavated and around the areas on which the removed soil would be placed.

A grid pattern for control of the excavation dimensions and of the soil sampling locations was laid out with a series of stakes. The stakes formed a grid pattern with nodes every 25 feet. The surface grid pattern for both trenches B and C is indicated on Figure 1. The grid from the initial characterization trench is also shown and it can be seen that the three trenches form a triangle approximately 150 feet on a side.

All equipment necessary for the characterization was assembled on site prior to the start of work. This included : excavation equipment, field and laboratory sampling supplies, and safety equipment. In addition to the necessary excavation personnel, a geologist or engineer and the site safety manager were on-site for all of the characterization activities.

B. Removal of Soil

The soils of Trench C were removed and characterized prior to those soils of Trench B.

The soil was removed with a dozer and a 3.5 cubic yard track loader. Ripper blades on the dozer were used to loosen compacted soils. The soils were pushed into piles where the tracked loader was used to move the soils from the excavation into trucks for hauling to the pile sites or to the remediation site. The soils were removed in approximately 6-inch lifts at a time over the entire area of the trench.

The locations of the soil piles and the asphalt pad used for thin spreading the soils can be seen on Figure 2. The soils, after unloading, were spread with a small dozer or a grader. Those soils exhibiting VOC were turned over on the asphalt pad with the grader to allow exposure of all soils to the atmosphere. After repeated turning and when no longer exhibiting VOC, as measured by the OVA, these soils were then transferred to the clean piles.

III. CHARACTERIZATION

A. Purpose

The soils within the excavation were analyzed in the field with a portable OVA (Foxboro Organic Vapor Analyzer-Model 88) for the purpose of determining the extent of soils containing VOC. The soils were analyzed in this manner approximately every six inches at the node points of the grids. In addition, soil samples were taken from selected nodes and analyzed at a state certified laboratory by EPA Method 8240 to specifically identify the VOC and to verify that low OVA readings correspond to little or no residual VOC in the soils.

Two soil samples from the 30 foot depth of both trench B and C were analyzed for the presence of base-neutral-acid compounds (semi-volatile organics) by EPA Method 8270. These compounds are not necessarily detected by the OVA.

B. Sampling Locations

The sampling of soils was performed at the nodes of the grid pattern covering each trench area. In addition to the OVA sampling at the nodes, additional OVA sampling was performed between nodes and to the outside of the nodes, both to define further the extent of VOC containing soils and as duplicate field samples. Samples taken for laboratory analysis were taken at the nodes and were labeled accordingly. Duplicate field samples for lab analysis were also taken.

C. OVA Sampling Methodology

The OVA readings taken in the field were taken as described below:

A punch bar, 1/2 inch diameter was driven into the soils to be

sampled approximately 12 inches, and was then removed. If the hole created caved in, a new hole was created.

A 1/4 inch diameter polypropylene flexible probe of the OVA was immediately inserted into the boring created by the punch bar. The surface of the boring was sealed off by a plastic washer surrounding probe.

The probe was left in the boring for approximately 30 seconds and the highest OVA reading obtained was then recorded in the field log as the field OVA reading at the node sampled. The field data was recorded in a bound sample notebook.

This method of field sampling was repeated at all accessible nodes within each 6-inch lift of the excavation. Not all nodes were always accessible due to the excavation procedures. Additional readings were taken in the same manner at locations between and to the outside of the nodes. At least two field duplicates per lift were obtained. Once the entire surface of the excavation was sampled in this manner, the soils were removed from the trench. The next lift was then sampled and the cycle repeated until the 30 foot depth was reached.

The OVA was serviced and calibrated daily to a methane calibration standard gas at two concentrations.

D. OVA Results

A tabulation of the field OVA readings for the accessible nodes from each 6-inch lift of the excavation of both trench B and C is given in Tables 1 and 2. As shown in Tables 3 and 4 the laboratory analytical results are generally several orders of magnitude less than the field OVA readings. The field OVA readings are graphically represented on Figures 3 through 26. These figures are cross-sections through the excavation from the

ground surface to the 30 foot depth. The figures have been colored to show levels of field OVA readings of 0-50 ppm (white), 50-500 ppm (blue), 500-2000 ppm (yellow) and greater than 2000 ppm (orange). This is the same manner in which the data from the initial characterization trench was presented. Refer to Figure 1 for the location of each cross-section.

The range of field OVA readings was 0 ppm to 9,500 ppm above background levels.

The colored figures define graphically the horizontal and vertical extent of the VOC containing soils that were at the 317 Area. It can be seen that the placement and dimensions of trenches B and C was necessary to define the horizontal extent of the VOC. The data presented herein and the data presented in "Progress Report of Soil Characterization at the 317 Area", dated March 1988, together show that VOC containing soils existed in the soils above the 30 foot depth and have been removed and remediated.

The soils remaining at 30 feet and below that contain VOC are indicated on Figure 26. Contours of the concentrations as indicated by the field OVA are shown on this figure. As discussed below, these field OVA readings generally correspond to the low part per million range of VOC concentration in the soils.

E. Verification Sample Methodology

Soils samples were taken and analyzed from selected lifts as verification of the field results of soil characterization. Initially, verification samples were taken from each 6-inch lift. Modifications to the work plan subsequently allowed verification samples to be taken every 24 inches. Samples were taken at the nodes of both relatively high and relatively low OVA readings. An OVA reading was taken in close proximity to the exact point from which each soil sample was taken. The samples were taken in

2 inch by 6 inch stainless steel or brass sleeves, driven into the soil by a hammer and sampling auger designed specifically for this type of sampling. Each sample was obtained, sealed and labeled in accordance with proper EPA protocol. The chain of custody documentation for these samples is included as Appendix D.

The laboratory utilized for the analysis of the soils was FGL Environmental of Santa Paula, California. All samples were analyzed by EPA Method 8240, volatile organics, or EPA Method 8270, semi-volatile organics as appropriate. The laboratory reports for the 8240 analyses are included as Appendix E, and those for the semi-volatile analyses are included as Appendix F. A tabulation of the laboratory results for volatile organics are given in Tables 3 and 4, corresponding to trenches B and C respectively. These tables list those organic compounds that were detected in the EPA Method 8240 analysis. In addition to the specific volatile organic compounds determined in each sample, the field OVA reading taken from the sample area is also indicated. Table 5 lists those compounds identified in the samples analyzed for semi-volatile organics.

F. Comparison of Field and Laboratory Results

As with the initial soil characterization performed at the 317 Area, the present laboratory results verify that the field procedures for identifying the VOC containing soils are reliable. It can be seen that the relatively low OVA readings (<500 ppm) correspond to little or no concentrations of volatile organics in the soils. The relatively high field OVA readings generally correspond to detectable volatile organics in the soils. High field OVA readings were found at the sites of both low and high VOC concentrations in the soils, while low field OVA readings were never found at areas of high VOC concentration in the soils. The laboratory results show the compounds found are consistent

with earlier data and are generally several orders of magnitude less than the field OVA readings.

G. Extent of Soils Containing Volatile Organic Compounds

As indicated above, Figures 3 through 26 show the extent of soils that contained VOC. By study of these figures and those of the initial characterization trench results one can see that the horizontal extent of the VOC in soils has been determined and as a consequence of the procedures the soils have been successfully remediated.

The unknown horizontal extents indicated as a result of the initial characterization trench have now been identified. It can be seen that the horizontal extent has become more definite and confined with depth. Figure 26 is a contoured drawing of the field OVA readings at the 30 foot depth. Two localized areas with relatively high field OVA readings can be seen at the 30 foot depth. It is assumed that these contours are an indication of the VOC containing soils below the 30 foot depth. The vertical extent of the VOC will be identified as indicated below.

H. Specific Organics Identified by Lab Analysis

The volatile organic compounds detected in the laboratory analysis are listed in Tables 3 and 4 are given below:

Acetone	Toluene
Trichlorofluoromethane	Chloroform
Tetrachloroethylene	1,1,1-Trichloroethane
Trichloroethylene	Methyl Ethyl Ketone
Styrene	

The major organic compounds detected were tetrachloroethylene and trichloroethylene. These results agree with those of the initial characterization results.

The semi-volatile organic analysis of the four samples taken from the near 30 foot depth of trenches B and C indicate a few compounds at very low concentrations. These compounds are listed in Table 5.

I. Quality Assurance/Quality Control

As directed by the approved closure plan and subsequent modifications, duplicate samples were taken both during the field OVA sampling and the field verification sampling. Also, laboratory duplicate and spike samples were run as part of the quality assurance/quality control protocol for the EPA approved analysis methods.

The duplicate field OVA samples are included in the field notes. The field OVA duplicate readings were generally within 25% of the original OVA reading. The duplicate verification samples from the field and the laboratory duplicates and spikes are included with the laboratory reports of all samples included as Appendix E.

J. Safety

As directed by the approved closure plan, proper safety procedures were adhered to at all times during the characterization work. Daily checks were made to insure that proper attire was worn by all persons at the site and to insure proper safety equipment was available in case the need arose.

Breathing zone readings for organic vapors were made to determine the proper level of safety equipment required.

A copy of the site safety officers reports of the activities is included as Appendix G.

K. Photographs

Photographs of the excavation and characterization procedures were taken to document these activities and are included as Appendix I.

IV. SUMMARY AND CONCLUSIONS

Further soils at the 317 Area have been excavated to a depth of 30 feet. A triangular area approximately 225 feet on a side and 30 feet deep now exists at the site.

The soils of the excavation have been characterized as to the extent of volatile organic compounds that existed in the soils prior to the excavation. As with the initial characterization, the recently completed work results show that the method of characterization is successful, as verified by the laboratory analysis of field soil samples.

The horizontal extent of volatile organic compounds has been determined. The vertical extent is not precisely known but will be determined as a result of further borings and probes as proposed below.

V. PROPOSED BORING AND PROBE PLAN

A. Verification Borings

As directed by the approved Closure Plan, borings will be installed around the perimeter of the 317 Area to verify the extent of VOC containing soils.

It is proposed to install 3 borings as indicated on Figure 27. The borings will be drilled to a depth at which no further OVA readings are obtained. A verification sample will be taken at the bottom of the boring and the boring will be drilled to a minimum of 30 feet.

Soils samples will be taken at 10 foot intervals in each boring. The samples will be taken with the aid of a California modified split-spoon-sampler. Proper sampling protocol, as directed by the approved Closure Plan, will be adhered to at all times. The verification samples will be analyzed by EPA Method 8240.

B. Verification Gas Probes

The vertical extent of the VOC containing soils below the 30 foot depth will be determined by the installation of 6 soil probes. These probes will be installed as indicated on Figure 28.

The borings for the probes will be drilled to a distance of 5 feet past the point of no further OVA readings in the soils from the boring. A soil sample will be taken and analyzed from the bottom of the boring to verify that no VOC exists below that point. These samples will be analyzed by EPA Method 8240.

A 4 inch diameter, slotted PVC pipe will be installed from the bottom of the boring to a distance 2 feet below the existing ground surface. From there to two feet above ground, a 4 inch

diameter non-slotted PVC pipe will be installed. The PVC pipe will be gravel packed to 2 feet below the ground surface and then a 2 foot cement/bentonite grout will be placed to seal off the surface of the boring. A construction schematic of the proposed boring is included as Figure 29.

After completion of the probes, each probe will be sampled to determine the concentration of VOC. A centrifugal fan capable of providing 125 cfm at approximately 20 inches water column will be used to pump air from each probe. Each probe will be pumped for one hour, after which time an air sample will be taken from the air stream. The six air samples, taken in Tedlar bags, will be handled similar to the samples being taken for volatile organics within the RCRA Closure Plan. The samples will be labeled and kept in cold storage for delivery to a state certified laboratory. The samples will be analyzed for the same organic compounds identified in the soil sampling analyses.

It is anticipated that the borings and probes can be completed within 60 days upon approval to proceed. A report of the construction, sampling and analysis results can be completed within 60 days of installation of the borings and probes.

TABLES

TABLE 1
Bermite Division, Whittaker Corp., 317 Area Soil Characterization

Field DVA Readings (PPM)

Trench B

Lift	Date	Depth	X	2	2	2	3	3	4	4	4	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	Sample							
		(ft)	Y	1	2	3	1	2	3	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	X	V	DVA					
1	06-May-88	2.0					5	5	8	5	4	8	0	4	0	5	0	0	0	5	0	0	3	0	0	0	0	3	3	8						
2	06-May-88	2.5					5	2	10	10	2	5	5	5	5	0	0	0	5	3	6	5	0	0	0	0	5	1	0							
3	07-May-88	3.0					10	0	5	8	5	5	10	10	0	5	10	5	5	5	3	0	0	0	0	2										
4	07-May-88	3.5					10	5	5	5	0	0	0	5	10	8	10	10	2	0	8	0	5	5	5	5										
5	07-May-88	4.0					6	7	5	15	10	5	15	5	3	7	7	0	5	5	5	0	3	2	2	2	4	1	15							
																										6	3	0								
6	07-May-88	4.5					3	5	10	10	10	10	5	5	10	8	4	5	5	6	5	5	8													
7	09-May-88	5.0					15	7	5	27	7	5	15	2	4	5	3	3	7	19	1	0	1	0	1	5	8	3	1							
8	09-May-88	5.5					7	5	4	20	10	3	20	7	0	11	3	2	8	6	5	4	12	2	1	16	7	4	60	4	1	20				
																										5	3	0								
9	May-88	6.0					5	5	4	18	10	0	16	3	0	12	8	2	4	13	5	2	12	2	2	10	7	2	50							
10	10-May-88	6.5					5	5	2	16	8	0	20	15	0	10	8	5	10	10	5	5	5	2	2	6	0	2	50							
11	10-May-88	7.0					4	4	2	6	10	18	4	9	2	2	2	1	8	1	2	1	8	2	2	1	2	2	20							
12	10-May-88	7.5					16	20	22	19	16	2	20	10	1	20	2	5	5	1	1	7	18	10	20	5	2	2	2							
13	10-May-88	8.0					16	20	20	18	18	4	26	24	2	32	3	8	18	2	1	7	18	4	26	12	2	3	6	6	1	19				
																										7	3	0								
14	10-May-88	8.5					12	20	25	20	16	10	20	24	2	24	4	10	6	2	1	5	10	6	20	5	2	2	24							
15	10-May-88	9.0					15	10	10	28	8	4	30	4	0	20	16	2	2	2	1	4	10	8	25	8	8	10	20							
16	11-May-88	9.5					8	5	0	4	2	8	5	3	0	7	4	0	2	3	4	2	4	2	2	2	11	3	14	4	1	4				
																										9	3	6								
17	11-May-88	10.0					5	10	20	15	10	40	20	10	10	2	4	0	2	2	6	1	2	4	2	10	16	8	45	12	8	15	45			
18	11-May-88	10.5					4	8	4	12	10	12	18	5	10	10	4	1	8	12	0	14	10	14	8	10	4	12	10	30	160					
19	12-May-88	11.0					10	14	20	12	18	4	18	12	0	18	15	4	20	5	5	15	14	16	18	75	10	40	14	40						
20	12-May-88	11.5					8	17	7	18	12	50	12	15	6	17	50	0	9	15	34	19	8	14	20	18	20	14	150	4	100	17	11	8	4	75
																										5	3	0								
21	13-May-88	12.0					14	6	14	16	13	8	2	14	8	18	17	1	18	16	8	45	16	21	7	90	40	50	14	150						
22	13-May-88	12.5					4	2	1	10	8	4	2	4	5	15	12	5	20	10	12	10	5	8	120	8	22	12	100							
23	14-May-88	13.0					1	4	2	6	8	1	20	16	0	18	15	4	4	15	40	150	2	20	120	180	0	8	40	200						
24	14-May-88	13.5					4	2	4	8	4	2	12	6	0	6	5	0	6	2	2	4	20	15	500	2	14	120	300	2	20	29	120	9	4	300
																										2	2	0								
																										2	2	0								
25	14-May-88	14.0					6	5	16	28	18	18	5	10	12	15	12	10	19	2	14	150	16	18	25	120	4	9	6	110						
26	16-May-88	14.5					15	2	4	16	5	10	27	5	15	12	40	8	12	3	20	150	14	12	14	250	4	8	13	200						
27	16-May-88	15.0					5	7	20	4	2	18	7	15	6	16	10	10	35	24	16	200	10	19	24	300	9	4	2	100						
28	16-May-88	15.5					16	12	9	20	10	10	5	5	9	15	25	5	8	2	10	250	7	5	20	120	8	7	10	150	8	4	120			
																										8	4	150								
																										3	2	4								
29	16-May-88	16.0					5	8	28	4	25	18	40	15	8	10	10	10	1	10	18	15	300	25	19	12	140	15	8	25	200					
30	17-May-88	16.5					27	20	12	12	7	11	2	10	15	12	22	24	14	6	20	180	14	8	15	300	20	19	25	200						
31	17-May-88	17.0					6	10	2	3	15	15	4	4	30	18	4	20	16	2	32	300	10	7	35	2000	8	8	20	80						
32	18-May-88	17.5					22	4	14	3	8	4	4	5	5	19	14	2	10	21	19	28	600	23	13	8	400	15	28	15	150	4	2	4		
																										8	4	800								

TABLE I

TABLE 2
Bermite Division, Whittaker Corp., 317 Area Soil Characterization

Field DVA results (PPM)

Trench C

Lift	Date	depth (ft)	x	2		2		3		3		4		4		5		5		6		6		7		7		8		8		9		9		9		Sample	
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	x	y	DVA						
1	21-Apr-88	2.0																																4	1	25			
2	21-Apr-88	2.5																																4	2	40			
3	21-Apr-88	3.0																																4	2	100			
4	22-Apr-88	3.5																																6	2	2			
5	22-Apr-88	4.0																																5	2	5			
6	22-Apr-88	4.5																																4	2	10			
7	22-Apr-88	5.0																																4	3	20			
8	22-Apr-88	5.5																																4	3	40			
9	22-Apr-88	6.0																																4	3	1100			
10	24-Apr-88	6.5																																4	3	40			
11	24-Apr-88	7.0																																4	3	7000			
12	24-Apr-88	7.5																																9	1	20			
13	24-Apr-88	8.0																																4	3	40			
14	24-Apr-88	8.5																																4	2	7000			
15	25-Apr-88	9.0																																4	3	300			
16	25-Apr-88	9.5																																9	1	9			
17	25-Apr-88	10.0																																4	3	5000			
18	25-Apr-88	10.5																																4	3	2000			
19	25-Apr-88	11.0																																4	3	7500			
20	26-Apr-88	11.5																																9	1	10			
21	26-Apr-88	12.0																																4	3	400			
22	26-Apr-88	12.5																																4	3	800			
23	26-Apr-88	13.0																																4	3	2500			
24	27-Apr-88	13.5																																5	1	5			
25	27-Apr-88	14.0																																4	3	2500			
26	27-Apr-88	14.5																																4	3	5000			
27	27-Apr-88	15.0																																4	3	8000			
28	28-Apr-88	15.5																																6	1	5			
29	28-Apr-88	16.0																																4	3	3200			
30	28-Apr-88	16.5	10																														4	3	5500				
31	28-Apr-88	17.0	12																														4	3	8000				
32	28-Apr-88	17.5	12																														7	1	10				
33	29-Apr-88	18.0	15																														4	3	9200				
34	29-Apr-88	18.5	12																														4	3	9200				
35	29-Apr-88	19.0	20																														4	3	8000				
36	29-Apr-88	19.5	15																														8	1	5				
37	30-Apr-88	20.0	12	60	80	10	40	50	8000	85	25	5	30	20	35	5	35	40	25	16	25	5	5	20	4	3	8000	5	3	5									
38	30-Apr-88	20.5	12	18	50	70	25	20	200	7500	40	35	25	10	35	15	15	20	30	15	20	35	25	15	5														
39	30-Apr-88	21.0	15	15	40	70	60	40	300	6000	25	45	15	25	10	40	10	15	30	15	5	25	15	10	35														
40	30-Apr-88	21.5	20	20	40	80	60	36	110	5000	30	10	20	20	30	10	10	5	20	20	15	20	10	35	20														

TABLE 2

Field OVA results (PPM)

Trench C

Lift	Date	Depth	X	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	+	Sample		
		(ft)	Y	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	Y	BVA
41	02-May-88	22.0		20	20	19	100	100	10	50	6000	10	15	5	25	45	20	5	35	10	5	30	25	5	30	20	4	3	3000	
																											7	1	5	
42	02-May-88	22.5		25	15	12	120	80	35	60	3000	25	20	19	5	30	10	25	10	15	10	25	35	15	20	15				
43	02-May-88	23.0		25	15	10	90	60	25	15	1500	25	15	25	10	25	25	10	10	20	10	5	30	25	15	10				
44	02-May-88	23.5		20	12	10	100	120	15	110	800	30	15	35	5	15	10	35	40	10	40	20	15	10	20	15				
45	03-May-88	24.0		10	25	12	120	150	45	200	900	45	10	40	55	10	25	40	15	20	10	5	20	35	10	35	4	3	900	
																											6	2	45	
46	03-May-88	24.5		30	30	40	110	140	80	900	1500	25	10	25	25	75	50	65	5	45	25	10	45	20	5	10				
47	03-May-88	25.0		25	25	55	100	200	210	500	3000	80	20	55	40	45	85	25	55	40	100	15	30	40	25	55				
48	03-May-88	25.5		30	25	25	100	220	300	700	1900	110	50	35	120	150	150	120	100	120	90	50	100	80	70	90				
49	04-May-88	26.0		30	25	100	180	200	40	110	500	30	20	35	10	75	45	65	40	55	25	25	45	35	35	35	4	3	500	
																											6	1	10	
50	04-May-88	26.5		35	28	150	400	200	200	250	1500	25	10	10	25	15	15	25	35	15	40	5	30	10	15	10				
51	04-May-88	27.0		40	15	200	850	350	40	200	1000	30	35	20	25	30	25	15	20	20	5	30	25	5	25	35				
52	04-May-88	27.5	0	45	40	350	400	200	60	50	600	40	65	25	30	20	15	25	5	30	25	15	35	5	20	5				
53	04-May-88	28.0	0	10	25	200	6500	300	40	60	800	65	110	100	25	100	85	50	50	70	30	35	100	40	5	15	3	2	6500	
																											9	2	5	
54	05-May-88	28.5	0	10	15	250	7000	1900	50	300	750	60	10	40	10	15	40	15	20	40	20	20	20	15	10	40				
55	05-May-88	29.0	2	8	10	110	7500	800	45	50	300	5	40	65	15	25	40	10	40	30	5	30	20	25	20	10				
56	05-May-88	29.5	0	8	12	25	7500	450	35	100	150	20	25	80	20	10	25	15	15	40	40	20	20	65	15	40	20			
57	05-May-88	30.0	0	8	8	15	8000	1200	40	50	600	40	10	10	30	30	15	25	20	20	5	10	20	5	10	15	3	2	7500	
																											8	2	10	

TABLE 3
Bermite Division, Whittaker Corp., 317 Area Soil Characterization
Laboratory Analysis Trench 8

lift	depth	Sample Node	Lab. Result (ppm)					Lab Total (ppm)	DVA Reading
			ACT	TET	TCI	STR	TLN		
1	2.0	3,3	ND	ND	ND	ND	ND	0.11	0.11
		5,1	ND	ND	ND	ND	ND	0.06	0
5	4.0	4,1	ND	ND	ND	ND	ND	0.00	15
		6,3	0.01	ND	ND	ND	ND	0.23	0.24
8	5.5	4,1	ND	ND	ND	ND	ND	0.00	20
		5,3	0.01	ND	ND	ND	ND	0.01	0
13	8.0	6,1	ND	ND	ND	ND	ND	0.00	19
		7,3	ND	ND	ND	ND	ND	0.00	0
16	9.5	5,1	ND	ND	ND	ND	ND	0.00	4
		9,1	ND	0.01	ND	ND	ND	0.01	6
20	11.5	8,4	ND	0.01	ND	ND	ND	0.01	75
		5,3	ND	ND	ND	ND	ND	0.00	0
24	13.5	9,4	ND	ND	ND	ND	ND	0.00	300
		2,2	ND	ND	ND	ND	ND	0.00	0
		2,2	ND	ND	ND	ND	ND	0.00	0
28	15.5	8,4	ND	ND	0.02	ND	ND	0.02	150
		8,4	ND	ND	ND	ND	ND	0.00	120
		3,2	ND	ND	ND	ND	ND	0.00	4
32	17.5	4,2	ND	0.05	ND	ND	ND	0.05	4
		8,4	ND	ND	ND	ND	ND	0.00	800
36	19.5	6,1	ND	ND	ND	ND	ND	0.00	4
		7,4	ND	500	320	ND	ND	820	8000
38	20.5	6,4	ND	1700	360	ND	ND	2060	8800
		8,4	ND	ND	ND	ND	ND	0.00	20
40	21.5	3,2	ND	ND	0.01	ND	ND	0.01	14
		7,4	ND	0.02	0.07	ND	ND	0.09	700
44	23.5	2,3	ND	ND	ND	ND	ND	0.00	15
		6,4	ND	ND	0.01	ND	ND	0.01	180
48	25.5	6,4	ND	ND	0.01	ND	ND	0.01	100
		9,2	ND	ND	ND	ND	ND	0.00	2

TABLE 3

 Bermitite Division, Whittaker Corp., 317 Area Soil Characterization
 Laboratory Analysis Trench B

lift	depth	Sample Node	Lab. Result (ppm)					Lab Total (ppm)	DVA Reading	
			ACT	TET	TCE	SIR	TLN			
52	27.5	6,3	ND	ND	0.02	ND	0.01	ND	0.03	7
		7,3	ND	ND	0.01	ND	ND	ND	0.01	40
		7,3	ND	ND	ND	ND	0.01	ND	0.01	40
56	29.5	7,1	ND	ND	ND	ND	ND	ND	0.00	4
		8,2	ND	ND	0.01	ND	ND	ND	0.01	80
60	30.0	7,4	ND	740	170	25	ND	ND	935	8600
		8,1	ND	ND	ND	ND	ND	ND	0.00	0
		4,1	ND	ND	ND	ND	ND	ND	0.00	4
		3,1	ND	ND	ND	ND	ND	ND	0.00	1

-----Legend-----

ACT:	Acetone	MEK:	Methyl Ethyl Ketone
TET:	Tetrachloroethylene	SIR:	Styrene
TCE:	Trichloroethylene	ND:	No Detection
TLN:	Toluene		

FIGURES

TABLE 4

 Bermite Division, Whittaker Corp., 317 Area Soil Characterization
 Laboratory Analysis Trench C

lift	depth	Sample Node	Lab. Result (ppm)								Lab Total (PPM)	Field DVA (PPM)	
			AC1	TCM	TET	TCE	STR	TLN	CHL	111	MEK		
1	2.0	4.1	ND	ND	0.03	ND	ND	ND	ND	ND	ND	0.03	25
2	2.5	4.2	ND	ND	0.24	ND	ND	ND	ND	ND	ND	0.24	40
3	3.0	4.2	ND	ND	0.09	ND	ND	ND	ND	ND	ND	0.09	100
4	3.5	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	2
5	4.0	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5
6	4.5	4.2	ND	ND	0.13	ND	ND	ND	ND	ND	ND	0.13	10
7	5.0	4.3	ND	ND	0.39	ND	ND	0.01	ND	ND	ND	0.40	20
8	5.5	4.3	ND	ND	0.30	ND	ND	ND	ND	ND	ND	0.30	40
9	6.0	4.3	ND	ND	30	ND	ND	ND	ND	ND	ND	30	1100
10	6.5	4.3	ND	ND	0.17	ND	ND	ND	ND	ND	ND	0.17	40
11	7.0	4.3	ND	ND	9	ND	ND	ND	ND	ND	ND	9	7000
12	7.5	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	20
13	8.0	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	40
14	8.5	4.2	ND	ND	115	ND	ND	ND	ND	ND	ND	115	7000
15	9.0	4.3	ND	ND	325	ND	ND	ND	ND	ND	ND	325	300
16	9.5	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	9
17	10.0	4.3	ND	ND	3	ND	ND	ND	ND	ND	ND	3	5000
18	10.5	4.3	ND	ND	2	ND	ND	ND	ND	ND	ND	2	2000
19	11.0	4.3	ND	ND	71	ND	ND	ND	ND	ND	ND	71	7500
20	11.5	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	10
21	12.0	4.3	ND	ND	4	ND	ND	ND	ND	ND	ND	4	400
22	12.5	4.3	ND	ND	1	ND	ND	ND	ND	ND	ND	1	800
23	13.0	4.3	ND	ND	240	2	ND	ND	ND	ND	ND	242	2500
24	13.5	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5
25	14.0	4.3	ND	3	30	ND	ND	ND	ND	ND	ND	33	2500
26	14.5	4.3	10	ND	400	5	ND	ND	4	ND	ND	419	5000
27	15.0	4.3	13	ND	400	6	ND	ND	2	ND	ND	421	8000
28	15.5	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5
29	16.0	4.3	ND	ND	200	3	ND	ND	2	ND	ND	205	9200
30	16.5	4.3	18	ND	350	14	ND	ND	2	ND	ND	384	9500
31	17.0	4.3	6	ND	800	60	ND	ND	2	ND	ND	867	8000
32	17.5	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	10
33	18.0	4.3	2	ND	ND	ND	ND	ND	ND	ND	ND	2	9200
34	18.5	4.3	7	ND	200	4	ND	ND	ND	ND	ND	2	212
35	19.0	4.3	7	ND	125	2	ND	ND	ND	ND	ND	2	136
36	19.5	8.1	13	ND	16	ND	ND	ND	ND	ND	ND	10	39
37	20.0	4.3	ND	ND	6	ND	ND	ND	ND	ND	ND	6	8000
		5.3	ND	0.02	0.07	0.01	ND	ND	ND	ND	ND	0.74	5
41	22.0	4.3	2	ND	170	7	ND	ND	ND	ND	ND	183	3000
		7.1	ND	0.02	0.05	0.01	ND	ND	ND	ND	ND	0.35	5

TABLE 4

Bermite Division, Whittaker Corp., 317 Area Soil Characterization
Laboratory Analysis Trench C

lift	depth	Sample Node	Lab. Result (ppm)							Lab Total (PPM)	Field DVA (PPM)	
			ACT	TCM	TET	TCE	STR	TLN	CHL	111	MEK	
45	24.0	4,3	ND	ND	7	ND	ND	ND	ND	ND	4	11
		6,2	ND	ND	0.10	0.01	ND	ND	ND	ND	0.3	0.42
49	26.0	4,3	ND	ND	0.01	ND	ND	ND	ND	ND	0.01	0.02
		6,1	0.01	ND	ND	ND	ND	ND	ND	ND	0.3	0.35
		6,1	0.01	ND	ND	ND	ND	ND	ND	ND	0.9	0.90
53	28.0	9,2	0.01	ND	ND	ND	ND	ND	ND	ND	0.01	0.02
		3,2	ND	ND	14	0.2	ND	ND	ND	ND	7	26
57	30.0	8,2	0.01	ND	ND	ND	ND	ND	ND	ND	0.4	0.36
		3,2	ND	ND	630	10	ND	ND	ND	ND	2	661
												7500

-Legend--

ACT:	Acetone	MEK:	Methyl Ethyl Ketone
TET:	Tetrachloroethylene	STR:	Styrene
TCE:	Trichloroethylene	111:	1,1,1-Trichloroethane
TLN:	Toluene	ND:	No Detection
CHL:	Chloroform		
TCM:	Trichlorofluoromethane		

TABLE 5
SEMI-VOLATILE ORGANICS (BNA'S)
IDENTIFIED IN SOIL AT THE 317 AREA

TRENCH B

<u>Sample I.D.</u>	<u>Depth</u>	<u>Identified Compounds</u>	<u>Tentatively Identified Compounds*</u>	<u>Concentration mg/kg</u>
7-4-56	29.5'	Benzyl Alcohol		.04
			Styrene	6
			Unidentified Compound	9
7-4-60	30'	None		
			Styrene	50
			C ₂₀ -C ₃₄ Hydrocarbon	
			Matrix	50
			Unidentified Compound	100

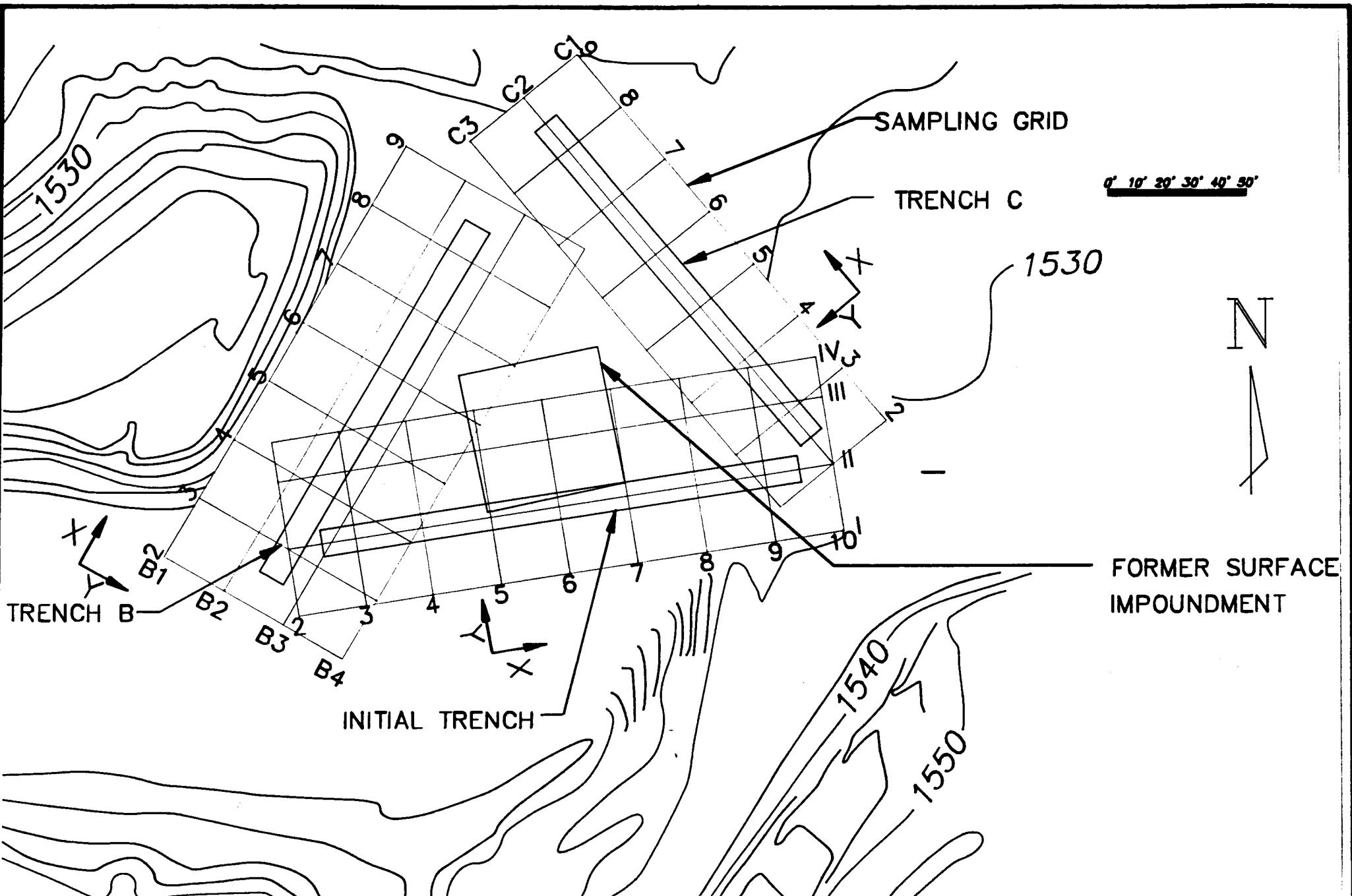
TRENCH C

3-3-60	30'	None	C ₂₀ -C ₃₄ Hydrocarbon	10
			Matrix	
3-2-57	30'	Butyl Benzyl Phthalate		.9
		2-Methylnaphthalene		.1
			1-Methylnaphthalene	.2
			Acetophenone	.4
			C ₂₀ -C ₃₄ Hydrocarbon	70
			Matrix	
			Unidentified Compound	.3

NOTES:

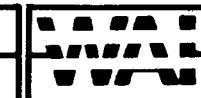
mg/kg = part per million (ppm)

* = concentrations are approximate



Bermite Division, Whittaker Corporation

Control Grids for Excavation and Sampling



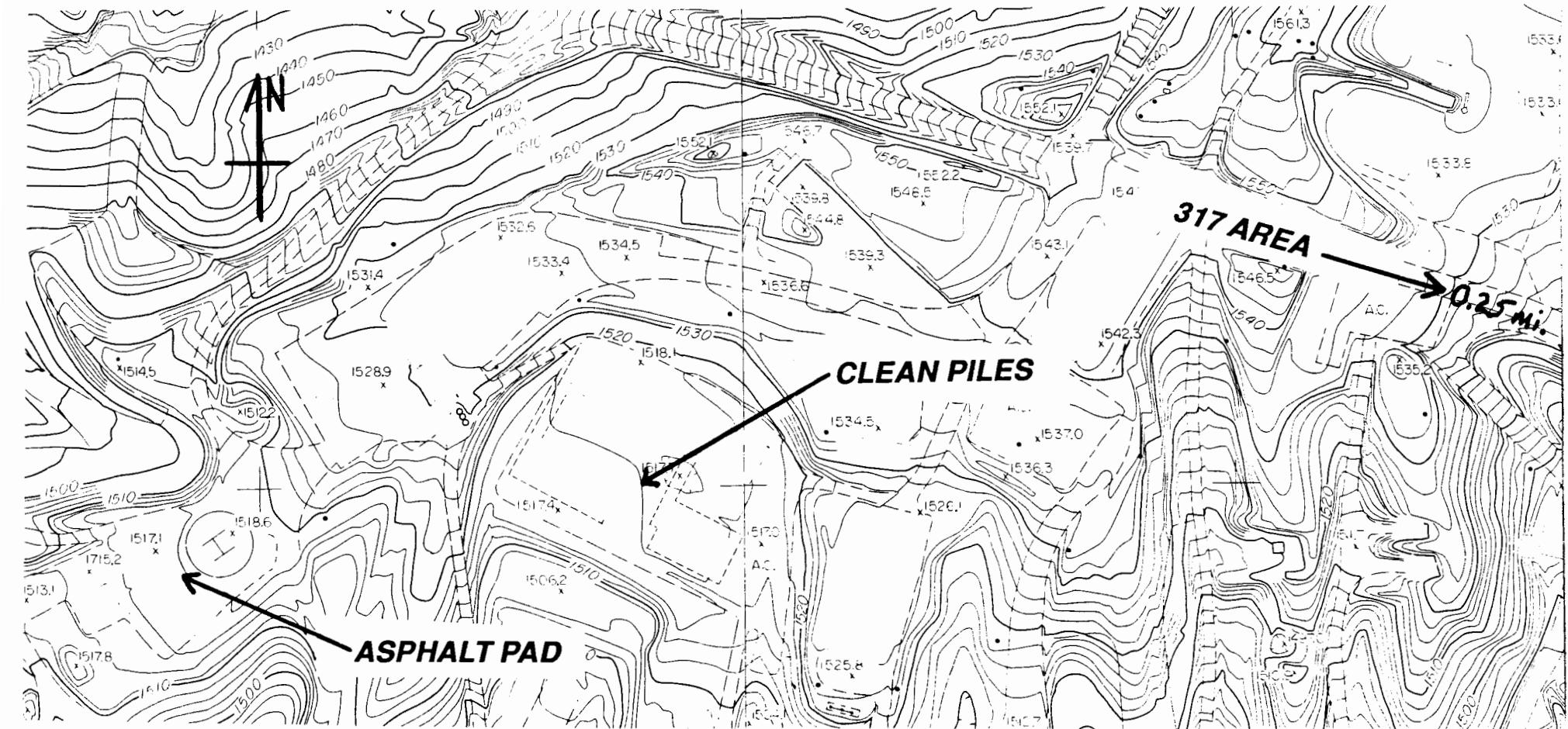
Consulting Engineers

Wenck Associates, Inc.

Jun 88

Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

Fig 1



SECTION B-1

Lift Depth (ft)	x y	1	3	4	5	6	7	8	9
1	2.0		5	5	0	5	0	0	0
2	2.5		5	10	5	0	5	5	0
3	3.0		10	8	10	5	5	0	2
4	3.5		10	5	0	8	2	0	5
5	4.0		8	15	15	7	5	0	2
6	4.5		3	10	5	8	5	5	8
7	5.0		15	27	15	5	7	0	5
8	5.5		7	20	20	11	8	4	15
9	6.0		5	18	16	12	4	2	10
10	6.5		5	16	20	10	10	5	6
11	7.0		4	6	4	2	8	1	1
12	7.5		10	19	20	20	5	7	5
13	8.0		16	18	26	32	18	7	12
14	8.5		12	20	20	24	6	5	5
15	9.0		15	28	30	20	2	4	8
16	9.5	8	4	5	7	2	2	2	4
17	10.0	5	15	20	2	2	1	10	12
18	10.5	4	12	18	10	8	14	10	8
19	11.0		10	12	18	18	20	14	10
20	11.5	8	18	12	17	9	19	18	4
21	12.0		14	16	2	18	18	16	40
22	12.5	4	10	2	15	20	22	10	8
23	13.0	1	0	20	18	4	4	2	0
24	13.5	4	8	12	6	6	4	2	2
25	14.0		6	28	5	15	18	16	4
26	14.5		15	16	27	12	12	14	4
27	15.0		5	4	7	16	35	10	4
28	15.5		10	20	5	15	8	7	8
29	16.0	5	8	25	15	10	10	25	15
30	16.5		27	12	2	12	14	14	20
31	17.0		6	3	4	18	16	10	8
32	17.5	22	4	8	5	14	21	22	15
33	18.0		5	2	3	10	16	20	5
34	18.5		10	4	3	6	40	10	5
35	19.0		6	15	19	16	14	18	15
36	19.5	22	18	8	7	4	4	4	12
37	20.0		5	20	10	35	55	5	15
38	20.5	2	2	6	4	9	8	8	4
39	21.0	4	6	8	12	16	5	11	8
40	21.5	4	5	4	4	25	15	10	16
41	22.0	6	10	9	12	20	18	20	25
42	22.5	4	13	12	7	25	20	27	30
43	23.0	2	47	8	22	12	4	8	28
44	23.5	2	30	25	25	7	8	35	50
45	24.0		25	10	11	8	3	27	16
46	24.5	4	10	15	8	8	2	8	17
47	25.0	6	20	12	3	9	5	8	12
48	25.5	8	24	14	4	3	9	12	15
49	26.0		13	13	7	6	12	15	6
50	26.5		6	12	14	6	6	16	12
51	27.0		15	15	7	5	10	15	7
52	27.5		3	28	7	5	9	10	25
53	28.0		25	17	4	4	10	10	20
54	28.5		33	5	22	9	11	10	6
55	29.0		25	9	9	5	10	14	13
56	29.5		10	7	6	9	12	9	17
57	30.0		25	22	7	8	10	11	15

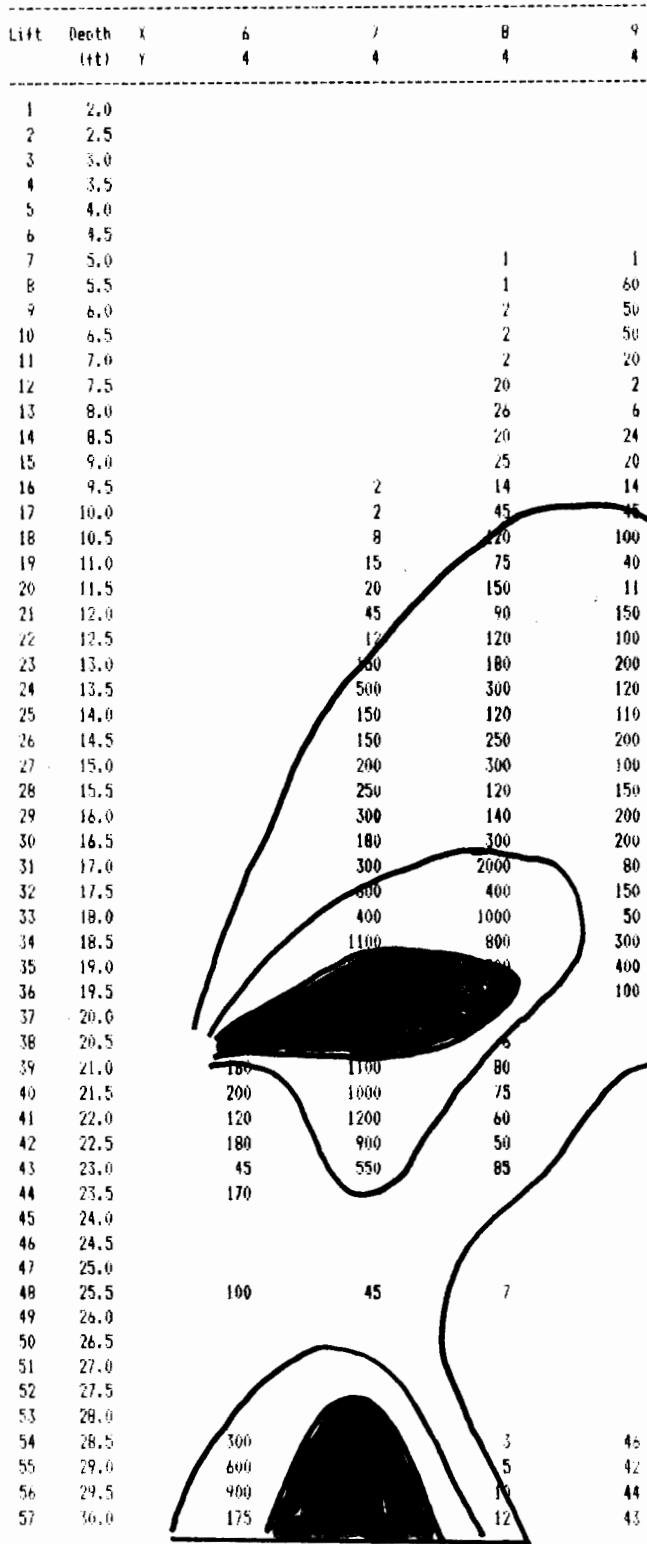
SECTION 8-2

Lift	Depth	1	2	3	4	5	6	7	8	9
	(ft)	t	t	t	t	t	t	t	t	t
1	2.0			5	4	4	0	5	3	0
2	2.5			2	2	5	0	3	0	
3	3.0			0	5	10	10	5	0	
4	3.5			5	0	5	10	0	5	
5	4.0			7	10	5	7	5	3	
6	4.5			5	10	5	4	8		
7	5.0			7	2	3	19	1		8
8	5.5			5	10	7	3	6	12	7
9	6.0			5	10	3	8	13	12	7
10	6.5			5	8	15	8	10	5	9
11	7.0			4	10	9	2	1	8	2
12	7.5			20	16	10	2	1	18	2
13	8.0			20	18	24	3	2	16	7
14	8.5			20	16	24	4	2	10	2
15	9.0			10	6	4	16	2	10	8
16	9.5	5		2	3	4	3	4	11	12
17	10.0	10		10	10	4	2	2	16	8
18	10.5	8		10	5	4	12	10	4	10
19	11.0			14	18	12	15	5	16	40
20	11.5	17		12	15	50	15	8	20	100
21	12.0			8	13	14	17	16	21	50
22	12.5			2	8	4	12	15	5	22
23	13.0	4		8	16	2	2	15	20	8
24	13.5	2		4	6	5	2	20	14	20
25	14.0			5	18	10	12	2	18	5
26	14.5			2	5	5	40	3	12	8
27	15.0			7	2	15	10	24	19	4
28	15.5			12	10	5	25	2	5	7
29	16.0			29	18	8	10	18	10	8
30	16.5			20	7	10	22	8	8	10
31	17.0			10	15	4	4	2	7	8
32	17.5			14	4	5	2	10	13	28
33	18.0			12	10	5	7	4	27	5
34	18.5			6	5	8	5	8	20	5
35	19.0			8	5	3	7	7	16	20
36	19.5	25		15	25	10	5	4	10	8
37	20.0			25	25	25	26	25	5	45
38	20.5	7		7	8	2	10	6	30	2
39	21.0	6		6	9	7	8	5	2	8
40	21.5	10		10	11	8	5	6	3	5
41	22.0	15		6	10	8	11	18	28	
42	22.5	20		9	12	9	10	20	41	
43	23.0	9		6	18	30	30	30	30	25
44	23.5	15		9	7	17	4	29	5	18
45	24.0			8	12	17	14	13	9	9
46	24.5	2		7	3	16	3	8	7	35
47	25.0	10		8	15	18	5	15	14	5
48	25.5	17		25	26	27	12	25	13	1
49	26.0			15	17	29	2	6	6	8
50	26.5			7	11	24	7	16	15	20
51	27.0			8	12	26	5	7	10	5
52	27.5			6	17	9	5	11	12	1
53	28.0			7	15	5	3	6	8	45
54	28.5			15	12	40	7	2	6	50
55	29.0			9	11	21	8	6	5	45
56	29.5			8	15	7	5	3	3	18
57	30.0			8	12	5	10	2	5	20

SECTION 8-3

Lift	Depth (ft)	X 1	2 3	3 5	4 3	5 3	6 3	7 3	8 3	9 3
1	2.0			6	8	0	0	0	0	0
2	2.5			10	5	5	0	0	0	0
3	3.0			5	5	0	5	3	0	0
4	3.5			5	9	10	10	6	0	0
5	4.0			5	5	3	0	5	0	0
6	4.5			10	10	10	5	1	0	3
7	5.0			5	5	4	3	1	0	4
8	5.5			4	3	0	2	5	2	2
9	6.0			4	0	0	2	5	2	2
10	6.5			2	0	0	5	5	2	2
11	7.0			2	10	2	1	2	2	2
12	7.5			22	2	1	5	1	10	2
13	8.0			20	4	2	8	1	4	3
14	8.5			25	10	2	10	1	5	2
15	9.0			10	4	0	2	1	8	10
16	9.5	0		8	0	0	4	2	3	6
17	10.0	20		40	10	0	6	4	8	15
18	10.5	4		12	10	1	0	14	12	20
19	11.0			20	4	0	4	5	18	14
20	11.5	7		50	6	0	34	14	14	17
21	12.0			14	8	8	1	6	7	14
22	12.5	1		4	5	5	0	10	0	12
23	13.0	2		1	0	0	6	40	120	40
24	13.5	4		2	0	0	2	15	120	20
25	14.0			16	18	12	10	14	25	6
26	14.5			4	10	15	8	20	14	13
27	15.0			20	18	6	10	16	24	2
28	15.5			9	10	9	5	10	20	10
29	16.0			4	40	10	1	15	12	25
30	16.5			12	11	15	24	20	15	25
31	17.0			2	15	30	20	32	35	20
32	17.5			3	4	19	10	28	8	15
33	18.0			5	16	18	16	10	15	10
34	18.5			8	20	14	20	5	40	5
35	19.0			30	4	4	25	8	28	25
36	19.5	15		25	5	4	10	6	8	5
37	20.0			35	10	35	10	75	30	95
38	20.5	5		5	3	4	4	7	8	20
39	21.0	5		12	10	0	15	21	12	6
40	21.5	4		15	12	16	17	4	15	6
41	22.0	20		18	17	9	21	16	14	
42	22.5	20		22	26	4	38	17	16	
43	23.0	2		1	4	16	1	26	12	20
44	23.5	1		2	1	3	4	10	50	
45	24.0			3	13	17	3	9	7	
46	24.5	6		6	3	7	28	13	10	4
47	25.0	10		20	25	20	24	17	15	7
48	25.5	10		20	35	45	14	20	47	6
49	26.0	7		25	16	18	18	2	12	
50	26.5			10	11	50	7	19	12	
51	27.0			28	25	46	4	23	7	6
52	27.5			47	4	7	1	8	9	2
53	28.0			7	37	35	8	15	6	7
54	28.5			3	50	40	13	30	7	9
55	29.0			12	35	37	15	14	7	8
56	29.5			15	4	55	18	15	3	4
57	30.0			6	12	43	12	10	8	7

SECTION B-4



SECTION 2

Lift	Depth (ft)	1	2	2	2
		1	2	2	3
1	2.0				
2	2.5				
3	3.0				
4	3.5				
5	4.0				
6	4.5				
7	5.0				
8	5.5				
9	6.0				
10	6.5				
11	7.0				
12	7.5				
13	8.0				
14	8.5				
15	9.0				
16	9.5	8	5	0	
17	10.0	5	10	20	
18	10.5	4	8	4	
19	11.0				
20	11.5	8	17	7	
21	12.0				
22	12.5	4	2	1	
23	13.0	1	4	2	
24	13.5	4	2	4	
25	14.0				
26	14.5				
27	15.0				
28	15.5				
29	16.0	5			
30	16.5				
31	17.0				
32	17.5	22			
33	18.0				
34	18.5				
35	19.0				
36	19.5	22	25	15	
37	20.0				
38	20.5	2	7	5	
39	21.0	4	6	5	
40	21.5	4	10	4	
41	22.0	6	15	20	
42	22.5	4	20	26	
43	23.0	2	9	2	
44	23.5	2	15	1	
45	24.0				
46	24.5	4	2	6	
47	25.0	6	10	10	
48	25.5	8	17	10	
49	26.0				
50	26.5				
51	27.0				
52	27.5				
53	28.0				
54	28.5				
55	29.0				
56	29.5				
57	30.0				

SECTION 3

List #	Depth (ft)	X Y	3	3	3
			1	2	3
1	2.0		5	5	8
2	2.5		5	2	10
3	3.0		10	0	5
4	3.5		10	5	5
5	4.0		6	7	5
6	4.5		3	5	10
7	5.0		15	7	5
8	5.5		7	5	4
9	6.0		5	5	4
10	6.5		5	5	2
11	7.0		4	4	2
12	7.5		16	20	22
13	8.0		16	20	20
14	8.5		12	20	25
15	9.0		15	10	10
16	9.5		4	2	8
17	10.0		15	10	40
18	10.5		12	10	12
19	11.0		10	14	20
20	11.5		18	12	50
21	12.0		14	6	14
22	12.5		10	8	4
23	13.0		6	8	1
24	13.5		8	4	2
25	14.0		6	5	16
26	14.5		15	2	4
27	15.0		5	7	20
28	15.5		16	12	9
29	16.0		8	28	4
30	16.5		27	20	12
31	17.0		6	10	2
32	17.5		4	14	3
33	18.0		5	12	5
34	18.5		10	6	8
35	19.0		8	6	30
36	19.5		18	15	25
37	20.0		5	25	35
38	20.5		2	7	5
39	21.0		6	8	12
40	21.5		5	10	15
41	22.0		10	6	18
42	22.5		13	9	22
43	23.0		4	8	1
44	23.5		30	9	2
45	24.0		29	8	3
46	24.5		10	7	6
47	25.0		20	8	20
48	25.5		24	25	70
49	26.0		13	15	7
50	26.5		6	7	19
51	27.0		15	8	28
52	27.5		3	8	47
53	28.0		25	7	7
54	28.5		33	16	3
55	29.0		25	9	12
56	29.5		10	8	15
57	30.0		25	8	8

SECTION 4

Lift	Depth (ft)	X Y	4 1	4 2	4 3
1	2.0		5	4	8
2	2.5		10	2	5
3	3.0		8	5	5
4	3.5		5	0	0
5	4.0		15	10	5
6	4.5		10	10	10
7	5.0		27	7	5
8	5.5		20	10	3
9	6.0		18	10	0
10	6.5		16	8	0
11	7.0		6	10	10
12	7.5		19	16	2
13	8.0		18	18	4
14	8.5		20	16	10
15	9.0		18	8	4
16	9.5		5	3	0
17	10.0		20	10	10
18	10.5		18	5	10
19	11.0		12	18	4
20	11.5		12	15	6
21	12.0		15	13	8
22	12.5		7	4	5
23	13.0		20	16	0
24	13.5		12	6	0
25	14.0		28	18	10
26	14.5		16	5	10
27	15.0		4	2	18
28	15.5		29	16	10
29	16.0		25	18	40
30	16.5		12	7	11
31	17.0		3	15	15
32	17.5		8	4	4
33	18.0		2	10	16
34	18.5		4	5	20
35	19.0		13	5	4
36	19.5		8	25	5
37	20.0		20	25	10
38	20.5		6	8	3
39	21.0		8	9	10
40	21.5		4	11	12
41	22.0		9	10	17
42	22.5		12	12	26
43	23.0		8	16	4
44	23.5		25	7	1
45	24.0		10	12	13
46	24.5		15	3	3
47	25.0		12	15	25
48	25.5		14	26	35
49	26.0		13	17	25
50	26.5		12	11	11
51	27.0		15	12	25
52	27.5		28	17	4
53	28.0		17	15	37
54	28.5		5	12	50
55	29.0		7	11	35
56	29.5		7	15	4
57	30.0		27	12	12

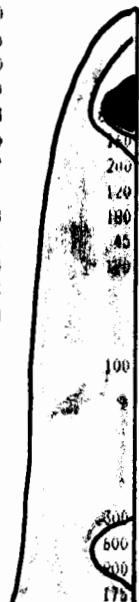
SECTION 5

Lift (ft)	Depth (ft)	X	5	5	5
			1	2	3
1	2.0		0	4	0
2	2.5		5	5	5
3	3.0		10	10	0
4	3.5		0	5	10
5	4.0		15	5	3
6	4.5		5	5	10
7	5.0		15	2	4
8	5.5		20	7	0
9	6.0		15	3	0
10	6.5		20	15	0
11	7.0		4	9	2
12	7.5		20	10	1
13	8.0		20	24	2
14	8.5		20	24	2
15	9.0		30	4	0
16	9.5		7	4	0
17	10.0		2	4	0
18	10.5		10	4	1
19	11.0		18	12	0
20	11.5		17	50	0
21	12.0		2	14	8
22	12.5		15	12	5
23	13.0		18	2	0
24	13.5		6	5	0
25	14.0		5	10	12
26	14.5		27	5	15
27	15.0		7	15	6
28	15.5		5	5	9
29	16.0		15	8	10
30	16.5		2	10	15
31	17.0		4	4	30
32	17.5		5	5	19
33	18.0		3	5	18
34	18.5		3	8	14
35	19.0		19	7	4
36	19.5		7	10	4
37	20.0		10	25	35
38	20.5		4	2	4
39	21.0		12	7	
40	21.5		4	8	16
41	22.0		12	8	9
42	22.5		7	9	4
43	23.0		22	30	16
44	23.5		25	17	3
45	24.0		11	17	17
46	24.5		8	16	7
47	25.0		3	18	20
48	25.5		4	27	45
49	26.0		7	20	16
50	26.5		14	24	50
51	27.0		7	20	46
52	27.5		7	9	7
53	28.0		9	5	35
54	28.5		22	40	40
55	29.0		4	21	37
56	29.5		6	7	55
57	30.0		7	5	43



SECTION 6

Lift #	Depth (ft)	X y	6 1	6 2	6 3	6 4
1	2.0		5	0	0	
2	2.5		0	0	0	
3	3.0		5	10	5	
4	3.5		8	10	10	
5	4.0		7	7	9	
6	4.5		8	4	5	
7	5.0		5	3	3	
8	5.5		11	3	2	
9	6.0		12	8	2	
10	6.5		10	8	5	
11	7.0		4	2	1	
12	7.5		20	2	5	
13	8.0		32	3	8	
14	8.5		24	4	10	
15	9.0		20	16	2	
16	9.5		2	3	4	
17	10.0		2	2	6	
18	10.5		8	12	0	
19	11.0		18	15	4	
20	11.5		9	15	34	
21	12.0		18	17	1	
22	12.5		20	15	0	
23	13.0		4	2	6	
24	13.5		6	2	2	
25	14.0		15	12	10	
26	14.5		12	40	8	
27	15.0		16	10	10	
28	15.5		15	25	5	
29	16.0		10	10	1	
30	16.5		12	22	24	
31	17.0		18	4	20	
32	17.5		14	2	10	
33	18.0		10	7	16	
34	18.5		6	5	20	
35	19.0		16	7	25	
36	19.5		4	5	10	
37	20.0		35	20	10	
38	20.5		9	10	4	
39	21.0		15	8	15	
40	21.5		25	3	17	200
41	22.0		20	11	21	120
42	22.5		25	10	36	180
43	23.0		12	30	1	45
44	23.5		7	4	4	100
45	24.0		8	14	3	
46	24.5		8	3	28	
47	25.0		9	5	24	
48	25.5		3	12	14	100
49	26.0		6	2	18	
50	26.5		6	7	7	
51	27.0		5	5	4	
52	27.5		6	5	1	
53	28.0		4	3	8	
54	28.5		9	7	13	300
55	29.0		5	8	15	600
56	29.5		9	6	18	900
57	30.0		8	10	12	175



SECTION /

Lift	Depth (ft)	X	7 1	7 2	7 3	7 4
1	2.0		5	0		
2	2.5	5	3	0		
3	3.0	5	5	3		
4	3.5	2	0	8		
5	4.0	5	5	5		
6	4.5	5	8			
7	5.0	7	19	1		
8	5.5	8	6	5		
9	6.0	4	13	5		
10	6.5	10	10	5		
11	7.0	8	1	2		
12	7.5	5	1	1		
13	8.0	18	2	1		
14	8.5	6	2	1		
15	9.0	2	2	1		
16	9.5	2	4	2	2	
17	10.0	1	2	4	2	
18	10.5	14	19	14	8	
19	11.0	20	5	5	15	
20	11.5	19	8	14	70	
21	12.0	18	16	8	45	
22	12.5	22	10	10	1	
23	13.0	4	15	40	150	
24	13.5	4	20	15	100	
25	14.0	18	2	14	150	
26	14.5	12	3	20	150	
27	15.0	35	24	16	200	
28	15.5	8	2	19	200	
29	16.0	10	18	15	300	
30	16.5	14	8	20	300	
31	17.0	16	2	32	300	
32	17.5	21	10	28	400	
33	18.0	10	4	10	400	
34	18.5	40	8	5	1100	
35	19.0	14	7	8	200	
36	19.5	4	4	5	500	
37	20.0	55	25	75		
38	20.5	8	6	7		
39	21.0	9	5	21	1100	
40	21.5	15	6	4	1000	
41	22.0	18	18	16	1200	
42	22.5	20	20	17	900	
43	23.0	4	30	26	550	
44	23.5	8	27	10		
45	24.0	3	13	9		
46	24.5	2	8	13		
47	25.0	5	15	17		
48	25.5	9	25	20		
49	26.0	12	6	18		
50	26.5	6	16	19		
51	27.0	10	7	23		
52	27.5	9	11	8		
53	28.0	10	6	15		
54	28.5	11	2	30		
55	29.0	10	6	14		
56	29.5	12	3	15		
57	30.0	10	2	10		

SECTION 8

Lift (ft)	Depth (ft)	X	8 1	8 2	8 3	8 4
1	2.0		0	3	0	
2	2.5		5	0	0	
3	3.0		0	0	0	
4	3.5		0	5		
5	4.0		0	3		
6	4.5		5			
7	5.0		0	1	0	1
8	5.5		4	12	2	1
9	6.0		2	12	2	2
10	6.5		5	5	2	2
11	7.0		1	8	2	2
12	7.5		7	18	10	20
13	8.0		7	18	4	26
14	8.5		5	10	6	20
15	9.0		4	10	8	25
16	9.5		2	11	3	14
17	10.0		10	16	8	45
18	10.5		10	4	12	14
19	11.0		14	16	18	75
20	11.5		18	20	14	150
21	12.0		16	21	7	90
22	12.5		10	5	8	120
23	13.0		2	20	120	180
24	13.5		2	14	120	300
25	14.0		18	18	25	120
26	14.5		14	12	14	250
27	15.0		10	19	24	300
28	15.5		7	5	20	120
29	16.0		25	10	12	140
30	16.5		14	8	15	300
31	17.0		10	7	35	900
32	17.5		23	13	8	400
33	18.0		20	27	15	1000
34	18.5		10	20	40	800
35	19.0		16	10	28	15
36	19.5		4	10	8	30
37	20.0		5	5	30	
38	20.5		8	30	8	
39	21.0		11	2	12	80
40	21.5		10	3	15	75
41	22.0		20	28	14	60
42	22.5		27	41	16	50
43	23.0		8	30	12	85
44	23.5		35	5	50	5
45	24.0		27	9	7	
46	24.5		8	7	10	
47	25.0		8	14	15	
48	25.5		12	13	47	7
49	26.0		15	6	2	
50	26.5		16	15	12	
51	27.0		15	10	7	
52	27.5		10	12	9	
53	28.0		10	8	8	
54	28.5		10	6	7	5
55	29.0		14	5	7	5
56	29.5		9	3	3	10
57	30.0		11	5	8	12

SECTION 9

Lift	Depth (ft)	X Y	9 1	9 2	9 3	9 4
1	2.0		0	0		
2	2.5		0			
3	3.0		2			
4	3.5		5			
5	4.0		2			
6	4.5		8			
7	5.0		5	8	3	1
8	5.5		16	7	4	60
9	6.0		10	7	2	50
10	6.5		6	0	2	50
11	7.0		1	2	2	20
12	7.5		5	2	2	2
13	8.0		12	2	3	6
14	8.5		5	2	2	24
15	9.0		8	8	10	20
16	9.5		4	12	6	14
17	10.0		12	8	15	40
18	10.5		8	10	30	00
19	11.0		10	40	14	40
20	11.5		4	100	17	11
21	12.0		40	50	14	150
22	12.5		8	22	12	100
23	13.0		0	8	40	200
24	13.5		2	20	20	120
25	14.0		4	9	6	110
26	14.5		4	8	13	200
27	15.0		9	4	2	100
28	15.5		8	7	10	150
29	16.0		15	8	25	200
30	16.5		20	10	25	200
31	17.0		8	8	20	80
32	17.5		15	28	15	150
33	18.0		5	5	10	50
34	18.5		5	5	5	300
35	19.0		15	20	25	400
36	19.5		12	8	5	300
37	20.0		15	45	95	80
38	20.5		4	2	20	20
39	21.0		8	8		
40	21.5		16	6	6	
41	22.0		25			
42	22.5		30			
43	23.0		26	25	20	
44	23.5		50	18		
45	24.0		18	9		
46	24.5		17	35	4	
47	25.0		12	5	7	
48	25.5		15	1	6	
49	26.0		6	8	10	
50	26.5		12	20		
51	27.0		7	5	6	
52	27.5		25	1	2	
53	28.0		20	45	7	
54	28.5		6	50	9	46
55	29.0		15	45	8	42
56	29.5		17	18	4	44
57	30.0		15	20	7	43

SECTION C-1

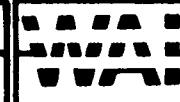
Lift	Depth	t	2	3	4	5	6	7	8	9
	(ft)	y	1	1	1	1	1	1	1	1
1	2.0				25	7	10	5	3	10
2	2.5				35	6	18	10	4	13
3	3.0				45	5	25	15	5	15
4	3.5				30	5	15	9		15
5	4.0				15	5	4	2	10	15
6	4.5				11	5	5	4	8	9
7	5.0				7	5	5	5	5	2
8	5.5				14	5	5	5	5	2
9	6.0				20	5	5	5	5	2
10	6.5				14	5	4	4	4	2
11	7.0				7	5	2	2	2	2
12	7.5				10		10	5	15	5
13	8.0				15	10	15	20	10	5
14	8.5				5	5	20	10	5	0
15	9.0				10	10	5	15	5	5
16	9.5				10	10	10	15	15	10
17	10.0				10	0	20	10	5	0
18	10.5				10	10	5	5	20	5
19	11.0				20	20	25	16	25	15
20	11.5				10	12	10	15	15	35
21	12.0				25	5	5	15	5	20
22	12.5				25	10	5	15	5	20
23	13.0				40	10	0	5	20	20
24	13.5				20	15	10	10	25	35
25	14.0				25	20	20	10	15	15
26	14.5				25	20	20	20	15	15
27	15.0				40	20	5	5	20	5
28	15.5				20	25	5	25	35	25
29	16.0				20	5	5	5	5	10
30	16.5				40	15	25	20	5	10
31	17.0				25	10	5	10	5	15
32	17.5				50	5	15	10	10	20
33	18.0				40	5	10	10	20	5
34	18.5				40	35	10	15	5	5
35	19.0				60	60	10	15	15	15
36	19.5				75	100	15	25	5	20
37	20.0		50		40	85	30	5	25	5
38	20.5		50		20	40	10	15	15	25
39	21.0		40		40	25	25	10	15	15
40	21.5		40		30	30	20	10	20	10
41	22.0		10		10	10	25	5	5	5
42	22.5		12		35	25	5	25	10	15
43	23.0		10		25	25	10	10	10	35
44	23.5		10		15	30	5	35	40	10
45	24.0		12		45	45	55	40	10	35
46	24.5		40		80	75	25	65	55	20
47	25.0		55		210	80	40	100	100	40
48	25.5		25		300	40	120	25	25	30
49	26.0		100		40	30	10	25	40	10
50	26.5		150		200	25	25	25	40	5
51	27.0		200		40	30	25	15	5	5
52	27.5	0	100		40	40	30	25	25	40
53	28.0	0	200		40	65	25	50	30	40
54	28.5	0	250		50	60	10	15	20	15
55	29.0	2	110		45	5	15	10	5	25
56	29.5	0	25		35	20	20	15	40	15
57	30.0	0	15		40	40	30	25	5	5

SECTION C-2

Lift	Depth (ft)	X	2	3	4	5	6	7	8	9
1	2.0				120	2	2	15	5	5
2	2.5				135	4	7	10	4	5
3	3.0				150	5	12	5	2	5
4	3.5				95	4	11	5	3	6
5	4.0				40	2	10	5	3	7
6	4.5				50	2	8	4	3	5
7	5.0				60	2	5	2	2	2
8	5.5				60	3	8	4	4	3
9	6.0				60	4	10	5	5	3
10	6.5				38	5	6	4	4	3
11	7.0				45	5	2	2	2	2
12	7.5				60	80	20	80	10	5
13	8.0				15	35	30	5	30	8
14	8.5				60	60	10	35	25	10
15	9.0				410	5	25	35	20	20
16	9.5				50	15	30	5	15	15
17	10.0				450	35	10	15	15	10
18	10.5				110	35	10	20	40	20
19	11.0				60	25	20	60	100	9
20	11.5				10	20	20	20	25	20
21	12.0				60	30	25	40	30	15
22	12.5				25	60	5	35	15	10
23	13.0				60	35	10	20	15	10
24	13.5				200	45	45	40	25	5
25	14.0				70	25	75	15	16	16
26	14.5				400	110	25	15	20	5
27	15.0				500	80	10	25	5	15
28	15.5				240	15	30	5	25	20
29	16.0				80	10	20	15	20	20
30	16.5	10			150	10	15	40	20	25
31	17.0	12			200	20	25	15	15	25
32	17.5	12			200	40	25	20	25	25
33	18.0	15			40	35	5	15	15	10
34	18.5	12			50	10	15	20	15	10
35	19.0	20			250	45	10	5	25	10
36	19.5	15			200	65	30	15	30	15
37	20.0	12			50	25	20	35	10	5
38	20.5	12			200	35	35	20	20	15
39	21.0	15			70	45	10	15	5	10
40	21.5	20			110	10	30	5	15	35
41	22.0	20			100	50	15	45	30	30
42	22.5	25			120	40	20	30	10	20
43	23.0	25			70	15	15	25	10	15
44	23.5	20			100	15	15	40	20	20
45	24.0	10			120	200	10	10	15	5
46	24.5	30			110	900	10	75	5	10
47	25.0	25			100	500	20	45	55	15
48	25.5	30			100	700	50	150	100	50
49	26.0	30			80	110	20	75	40	35
50	26.5	35			400	250	10	15	35	15
51	27.0	40			850	200	35	30	20	25
52	27.5	45			400	50	65	20	5	20
53	28.0	40			60	110	100	50	35	5
54	28.5	40			300	10	15	20	20	10
55	29.0	8			50	40	25	40	30	20
56	29.5	8			100	25	10	15	20	40
57	30.0	8			50	10	30	20	10	10

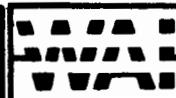
SECTION C-3

Lift	Depth	1	2	3	4	5	6	7	8	9
	(ft)	y	z	z	z	z	z	z	z	z
1	2.0					5	2	7	5	15
2	2.5					4	2	19	5	10
3	3.0					2	1	30	5	4
4	3.5					2	8	23	5	4
5	4.0					2	15	15	5	3
6	4.5					2	10	9	4	3
7	5.0					2	5	2	2	3
8	5.5				40	4	5	4	6	3
9	6.0				100	5	5	5	10	2
10	6.5				40	5	4	4	6	2
11	7.0				40	5	2	2	2	2
12	7.5				15	30	40	10	8	
13	8.0				40		25	25	5	5
14	8.5				740	45	10	30	5	10
15	9.0				300	20	25	10	10	5
16	9.5				1300	15	55	25	25	20
17	10.0					55	45	20	2	15
18	10.5					20	10	40	15	15
19	11.0					30	20	55	80	15
20	11.5					16	10	20	10	20
21	12.0					60	45	20	10	20
22	12.5					10	40	10	10	5
23	13.0					20	15	15	15	5
24	13.5					5	30	20	30	20
25	14.0					10	25	30	25	20
26	14.5					180	15	30	25	20
27	15.0					70	15	40	5	25
28	15.5					35	10	45	20	25
29	16.0					40	40	70	20	40
30	16.5					5	35	25	10	10
31	17.0					25	40	10	15	10
32	17.5					15	25	20	15	15
33	18.0					55	20	15	20	25
34	18.5					65	20	30	20	20
35	19.0					10	40	10	20	5
36	19.5					40	55	15	30	5
37	20.0					5	35	40	25	20
38	20.5	18	22			25	15	30	35	5
39	21.0	15	30			15	40	30	25	35
40	21.5	20	60			20	10	20	20	20
41	22.0	20	100			5	20	10	25	20
42	22.5	15	80			10	10	15	35	15
43	23.0	15	80		1500	25	25	20	30	10
44	23.5	12	120		800	35	10	10	15	15
45	24.0	25	150		900	40	25	20	20	35
46	24.5	30	140		1500	25	50	45	45	10
47	25.0	25	200			55	65	40	30	
48	25.5	25	220		1900	75	150	120	400	
49	26.0	25	200		500	35	45	35	45	35
50	26.5	28	200		1500	10	15	15	30	10
51	27.0	15	350		1000	20	25	20	25	35
52	27.5	40	200		800	35	15	30	35	5
53	28.0	25	400		800	100	85	70	100	15
54	28.5	15	1000		750	40	40	40	20	40
55	29.0	10	900		300	65	40	30	20	10
56	29.5	12	450		150	80	25	40	65	20
57	30.0	8	1200		600	10	15	20	20	15

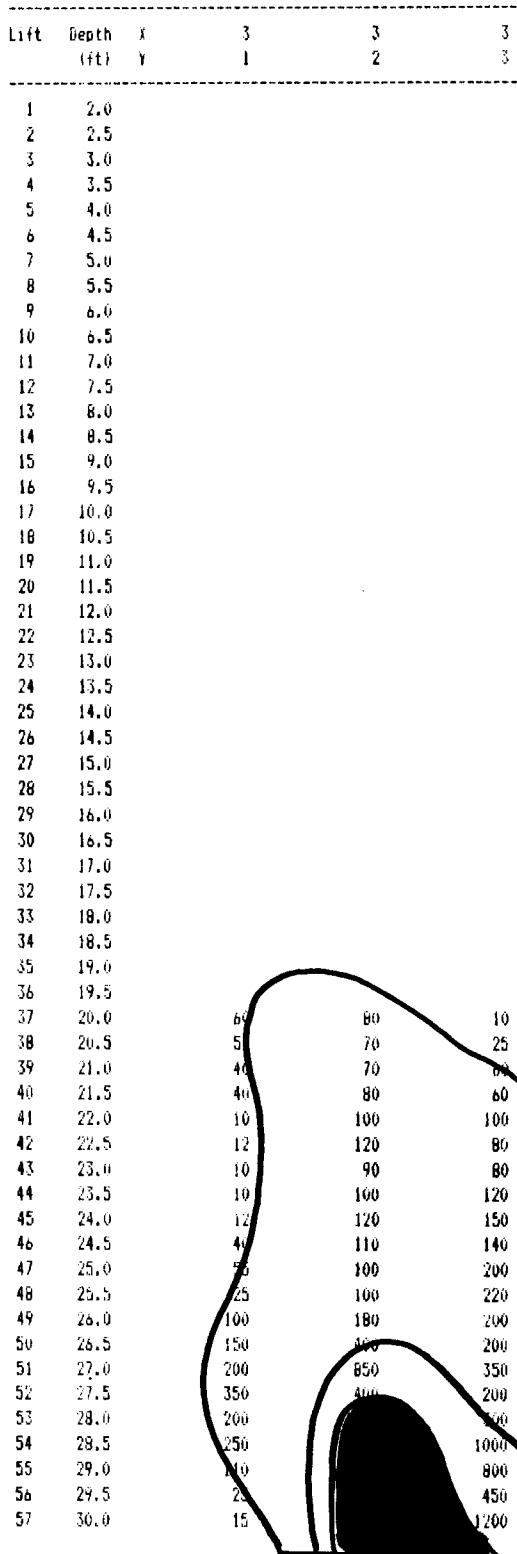


SECTION 2

Lift (ft)	Depth (ft)	X r	2 1	2 2	2 3
1	2.0				
2	2.5				
3	3.0				
4	3.5				
5	4.0				
6	4.5				
7	5.0				
8	5.5				
9	6.0				
10	6.5				
11	7.0				
12	7.5				
13	8.0				
14	8.5				
15	9.0				
16	9.5				
17	10.0				
18	10.5				
19	11.0				
20	11.5				
21	12.0				
22	12.5				
23	13.0				
24	13.5				
25	14.0				
26	14.5				
27	15.0				
28	15.5				
29	16.0				
30	16.5			10	
31	17.0			12	
32	17.5			12	
33	18.0			15	
34	18.5			12	
35	19.0			20	
36	19.5			15	
37	20.0			12	
38	20.5			12	18
39	21.0			15	15
40	21.5			20	20
41	22.0			20	20
42	22.5			25	15
43	23.0			25	15
44	23.5			20	12
45	24.0			10	25
46	24.5			30	30
47	25.0			25	25
48	25.5			30	25
49	26.0			30	25
50	26.5			35	28
51	27.0			40	15
52	27.5	0		45	40
53	28.0	0		10	25
54	28.5	0		10	15
55	29.0	2		8	10
56	29.5	0		8	12
57	30.0	0		8	8



SECTION 3



SECTION 4

Lift	Depth (ft)	X Y	4 1	4 2	4 3
1	2.0		25	120	
2	2.5		35	135	
3	3.0		45	150	
4	3.5		30	95	
5	4.0		15	40	
6	4.5		11	50	
7	5.0		7	60	
8	5.5		14	60	40
9	6.0		20	60	110
10	6.5		14	38	40
11	7.0		7	15	40
12	7.5		10	60	
13	8.0		15	15	40
14	8.5		5		740
15	9.0		10	210	300
16	9.5		10	50	1300
17	10.0		10	450	
18	10.5		10	110	
19	11.0		20	50	750
20	11.5		10	10	65
21	12.0		25	60	400
22	12.5		25	25	800
23	13.0		40	60	
24	13.5		20	120	
25	14.0		25	40	
26	14.5		25	400	
27	15.0		40	500	
28	15.5		20	240	
29	16.0		20	80	
30	16.5		40	150	
31	17.0		25	200	
32	17.5		50	200	
33	18.0		40	40	
34	18.5		40	50	
35	19.0		60	250	
36	19.5		75	200	
37	20.0		40	50	
38	20.5		20	200	
39	21.0		40	300	
40	21.5		30	110	
41	22.0		10	50	
42	22.5		35	60	
43	23.0		25	15	1500
44	23.5		15	110	800
45	24.0		40	200	900
46	24.5		80	600	
47	25.0		210	500	
48	25.5		300	400	1000
49	26.0		40	110	500
50	26.5		100	250	1500
51	27.0		40	200	1000
52	27.5		60	50	600
53	28.0		40	80	800
54	28.5		50	300	750
55	29.0		45	50	300
56	29.5		35	100	150
57	30.0		40	50	600

SECTION 5

Lift	Depth (ft)	X Y	5 1	5 2	5 3
1	2.0		2	2	5
2	2.5		4	4	4
3	3.0		5	5	2
4	3.5		5	4	2
5	4.0		5	2	2
6	4.5		5	2	2
7	5.0		5	2	2
8	5.5		5	3	4
9	6.0		5	4	5
10	6.5		5	5	5
11	7.0		5	5	5
12	7.5		80	15	
13	8.0	10	35		
14	8.5	5	60	45	
15	9.0	10	5	20	
16	9.5	10	15	15	
17	10.0	0	35	55	
18	10.5	10	35	20	
19	11.0	20	25	30	
20	11.5	12	20	16	
21	12.0	5	30	60	
22	12.5	10	60	10	
23	13.0	10	35	20	
24	13.5	15	45	5	
25	14.0	20	25	10	
26	14.5	20	110	180	
27	15.0	20	80	70	
28	15.5	25	15	35	
29	16.0	5	10	40	
30	16.5	15	10	5	
31	17.0	10	20	25	
32	17.5	5	40	15	
33	18.0	5	35	55	
34	18.5	35	10	65	
35	19.0	60	45	10	
36	19.5	100	65	40	
37	20.0	85	25	5	
38	20.5	40	35	25	
39	21.0	25	45	15	
40	21.5	30	10	20	
41	22.0	10	15	5	
42	22.5	25	20	10	
43	23.0	25	15	25	
44	23.5	30	15	35	
45	24.0	45	10	40	
46	24.5	25	10	25	
47	25.0	80	20	55	
48	25.5	110	50	35	
49	26.0	30	20	35	
50	26.5	25	10	10	
51	27.0	30	35	20	
52	27.5	40	65	20	
53	28.0	65	110	100	
54	28.5	60	60	40	
55	29.0	5	40	65	
56	29.5	20	25	80	
57	30.0	40	10	10	

SECTION 6

Lift #	Depth (ft)	X Y	6 1	6 2	6 3
1	2.0		10	2	2
2	2.5		18	7	2
3	3.0		25	12	1
4	3.5		15	11	8
5	4.0		4	10	15
6	4.5		5	8	10
7	5.0		5	5	5
8	5.5		5	8	5
9	6.0		5	10	5
10	6.5		4	6	4
11	7.0		2	2	2
12	7.5		10	20	30
13	8.0		15	30	25
14	8.5		20	10	10
15	9.0		5	25	25
16	9.5		10	30	55
17	10.0		20	10	45
18	10.5		5	10	10
19	11.0		25	20	20
20	11.5		10	20	10
21	12.0		5	25	45
22	12.5		5	5	40
23	13.0		0	10	15
24	13.5		10	45	30
25	14.0		20	75	25
26	14.5		20	25	15
27	15.0		5	10	15
28	15.5		5	30	10
29	16.0		5	20	40
30	16.5		25	15	35
31	17.0		5	25	40
32	17.5		15	25	25
33	18.0		10	5	20
34	18.5		10	15	20
35	19.0		10	10	40
36	19.5		15	30	55
37	20.0		30	20	35
38	20.5		10	35	15
39	21.0		25	10	40
40	21.5		20	30	10
41	22.0		25	45	20
42	22.5		5	30	10
43	23.0		10	25	25
44	23.5		5	15	10
45	24.0		55	10	25
46	24.5		25	75	55
47	25.0		10	45	85
48	25.5		120	150	150
49	26.0		10	75	45
50	26.5		25	15	15
51	27.0		25	30	25
52	27.5		30	20	15
53	28.0		25	100	85
54	28.5		10	15	40
55	29.0		15	25	40
56	29.5		20	10	25
57	30.0		30	30	15

SECTION 7

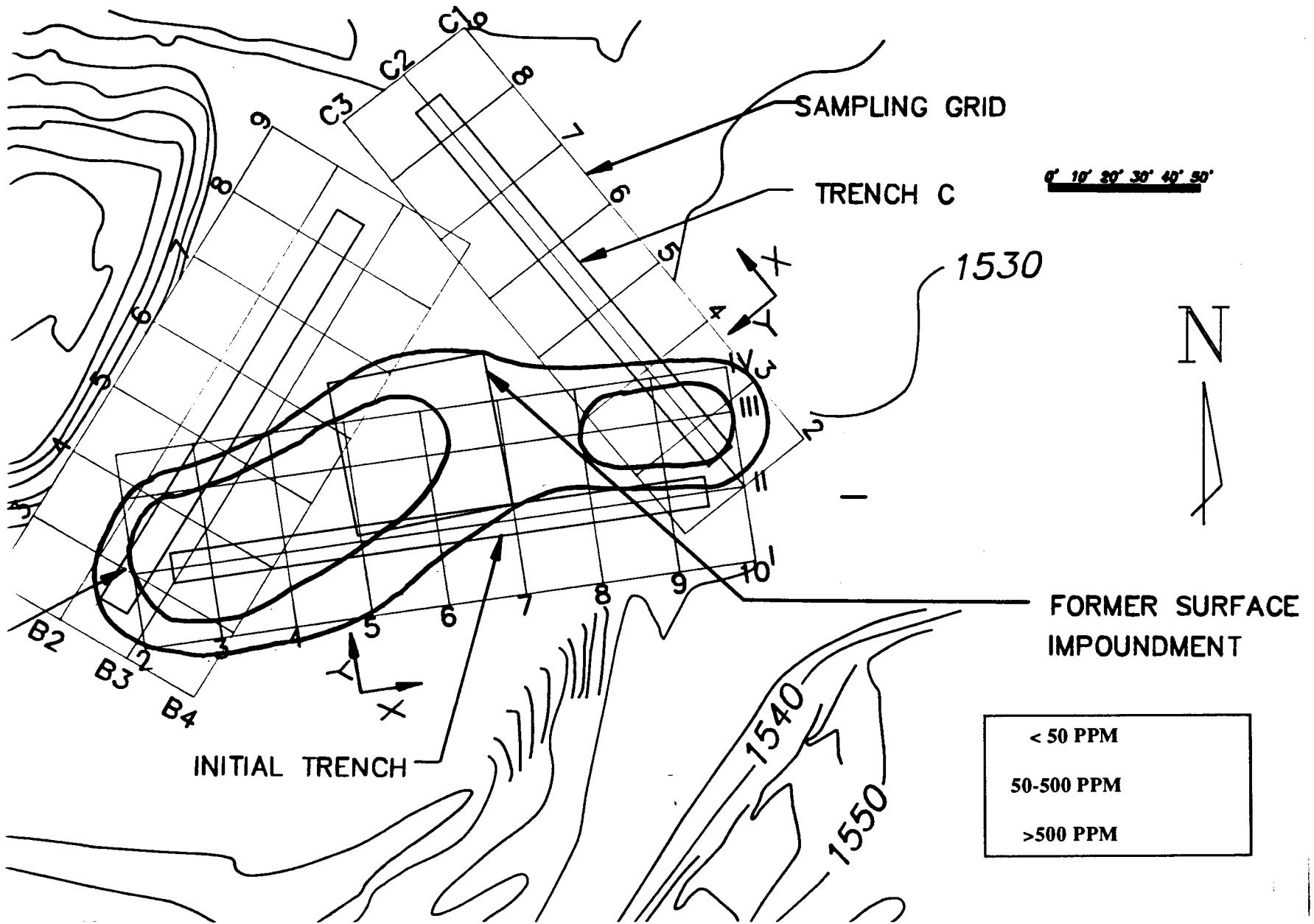
Lift (ft)	Depth ft	1	2	3
1	2.0	5	15	7
2	2.5	10	10	19
3	3.0	15	5	30
4	3.5	9	5	23
5	4.0	2	5	15
6	4.5	4	4	9
7	5.0	5	2	2
8	5.5	5	4	4
9	6.0	5	5	5
10	6.5	4	4	4
11	7.0	2	2	2
12	7.5	5	60	40
13	8.0	20	5	25
14	8.5	10	35	30
15	9.0	15	35	10
16	9.5	15	5	25
17	10.0	10	15	20
18	10.5	5	20	40
19	11.0	16	60	55
20	11.5	15	20	20
21	12.0	15	40	20
22	12.5	15	35	10
23	13.0	5	20	15
24	13.5	10	40	20
25	14.0	10	15	30
26	14.5	20	15	30
27	15.0	5	25	40
28	15.5	25	5	45
29	16.0	5	15	70
30	16.5	20	40	25
31	17.0	10	15	10
32	17.5	10	20	20
33	18.0	10	15	15
34	18.5	15	20	30
35	19.0	15	5	10
36	19.5	25	15	15
37	20.0	5	35	40
38	20.5	15	20	30
39	21.0	10	15	30
40	21.5	10	5	20
41	22.0	5	35	10
42	22.5	25	10	15
43	23.0	10	10	20
44	23.5	35	40	10
45	24.0	40	15	20
46	24.5	65	5	45
47	25.0	25	35	40
48	25.5	120	100	120
49	26.0	65	40	55
50	26.5	25	35	15
51	27.0	15	20	20
52	27.5	25	5	30
53	28.0	50	50	70
54	28.5	15	20	40
55	29.0	10	40	30
56	29.5	15	15	40
57	30.0	25	20	20

SECTION 8

Lift	Depth ft.	1	8 1	8 2	8 3
1	2.0		3	5	5
2	2.5		4	4	5
3	3.0		5	2	5
4	3.5		8	3	5
5	4.0		10	3	5
6	4.5		8	3	4
7	5.0		5	2	2
8	5.5		5	4	6
9	6.0		5	5	10
10	6.5		4	4	8
11	7.0		2	2	2
12	7.5		15	10	10
13	8.0		10	30	5
14	8.5		5	25	5
15	9.0		5	20	10
16	9.5		15	15	25
17	10.0		5	15	2
18	10.5		20	40	25
19	11.0		25	100	80
20	11.5		15	25	10
21	12.0		5	30	10
22	12.5		5	15	15
23	13.0		20	15	15
24	13.5		25	25	30
25	14.0		15	10	25
26	14.5		15	20	25
27	15.0		20	5	5
28	15.5		35	25	20
29	16.0		5	20	20
30	16.5		5	20	10
31	17.0		5	15	15
32	17.5		10	25	15
33	18.0		20	15	20
34	18.5		5	15	20
35	19.0		15	25	20
36	19.5		5	30	30
37	20.0		25	10	25
38	20.5		15	20	35
39	21.0		15	5	25
40	21.5		20	15	20
41	22.0		5	30	25
42	22.5		10	25	35
43	23.0		10	5	30
44	23.5		40	20	15
45	24.0		10	5	20
46	24.5		25	10	45
47	25.0		100	15	30
48	25.5		90	50	100
49	26.0		25	25	45
50	26.5		40	5	30
51	27.0		5	30	25
52	27.5		25	15	35
53	28.0		30	35	100
54	28.5		20	20	20
55	29.0		5	30	20
56	29.5		40	20	65
57	30.0		5	10	20

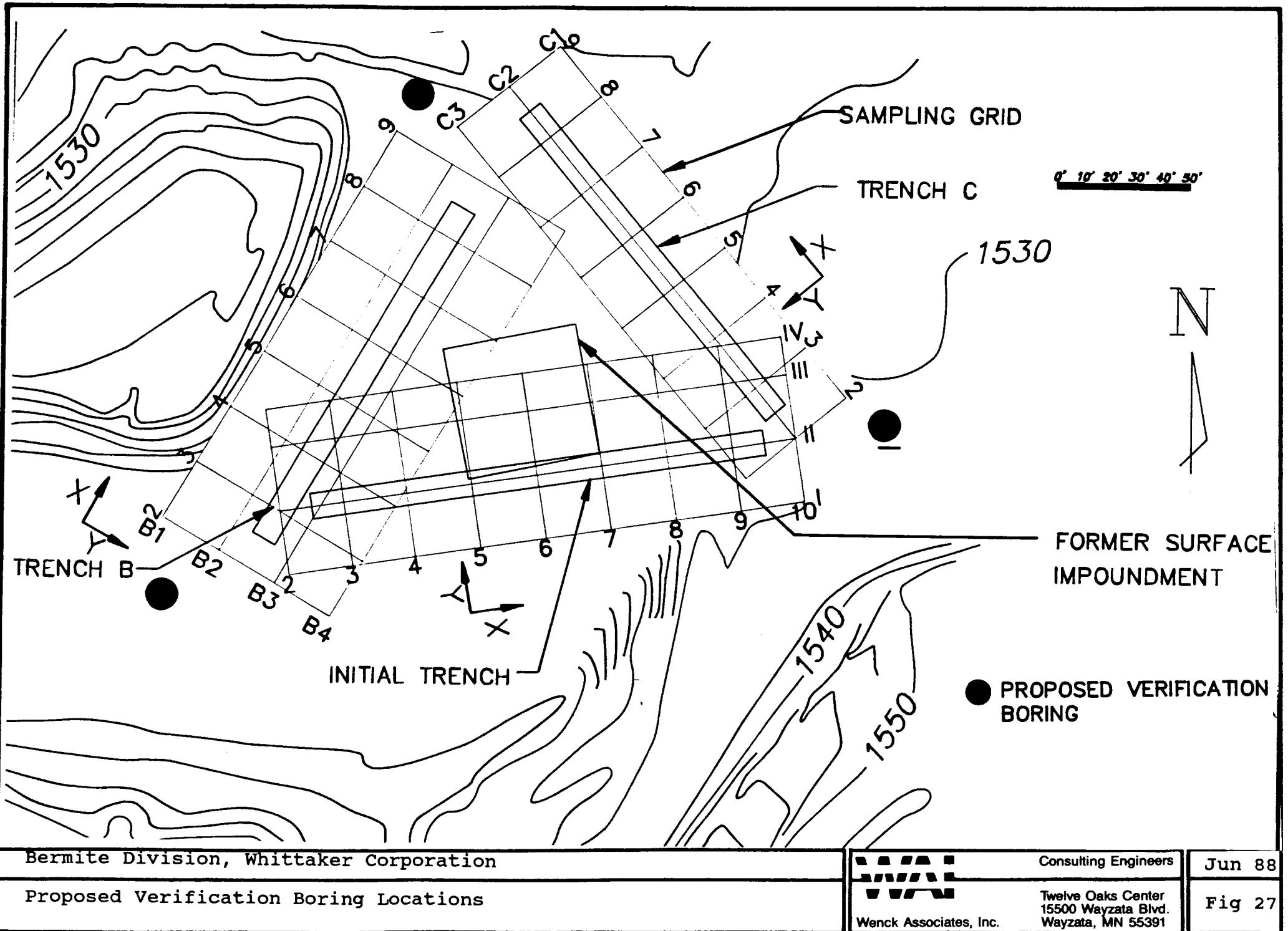
SECTION 9

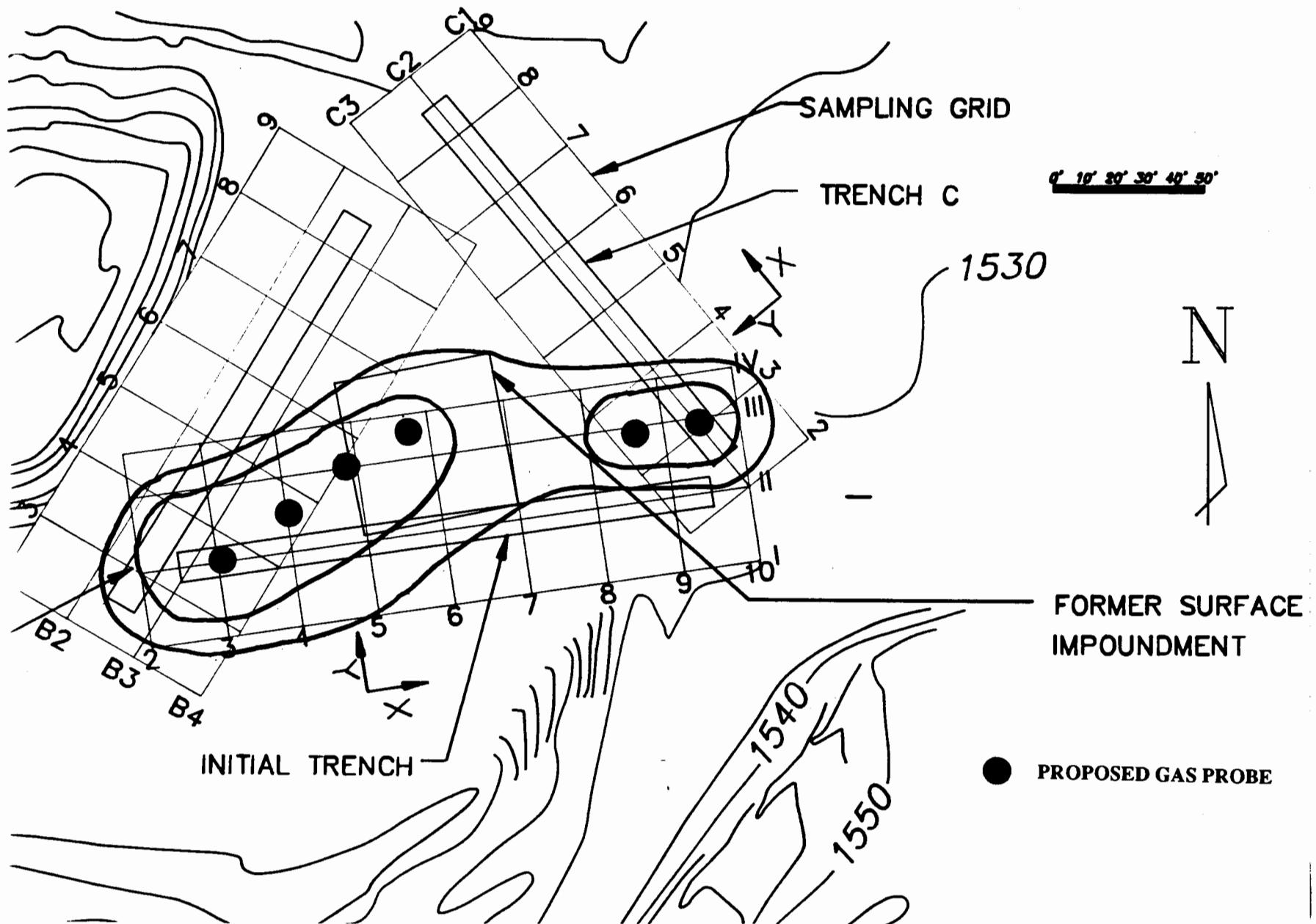
Lift Depth (ft)	X Y	9 1	9 2	9 3
1	2.0	10	5	15
2	2.5	13	5	10
3	3.0	15	5	4
4	3.5	15	6	4
5	4.0	15	7	3
6	4.5	9	5	3
7	5.0	2	2	3
8	5.5	2	3	3
9	6.0	2	3	2
10	6.5	2	3	2
11	7.0	2	2	2
12	7.5	5	5	8
13	8.0	5	8	5
14	8.5	0	10	10
15	9.0	5	20	5
16	9.5	10	15	20
17	10.0	0	10	15
18	10.5	5	20	15
19	11.0	15	9	15
20	11.5	35	20	20
21	12.0	20	15	20
22	12.5	20	10	5
23	13.0	20	10	5
24	13.5	35	5	20
25	14.0	15	10	20
26	14.5	15	5	20
27	15.0	5	15	25
28	15.5	25	20	25
29	16.0	10	20	40
30	16.5	10	25	10
31	17.0	15	25	10
32	17.5	20	25	15
33	18.0	5	10	25
34	18.5	5	10	20
35	19.0	15	10	5
36	19.5	20	15	5
37	20.0	5	5	20
38	20.5	25	15	5
39	21.0	15	10	35
40	21.5	10	35	20
41	22.0	5	30	20
42	22.5	15	20	15
43	23.0	35	15	10
44	23.5	10	20	15
45	24.0	35	10	35
46	24.5	20	5	10
47	25.0	40	25	35
48	25.5	80	70	90
49	26.0	35	35	35
50	26.5	10	15	10
51	27.0	5	25	35
52	27.5	5	20	5
53	28.0	40	5	15
54	28.5	15	10	40
55	29.0	25	20	10
56	29.5	15	40	20
57	30.0	5	10	15

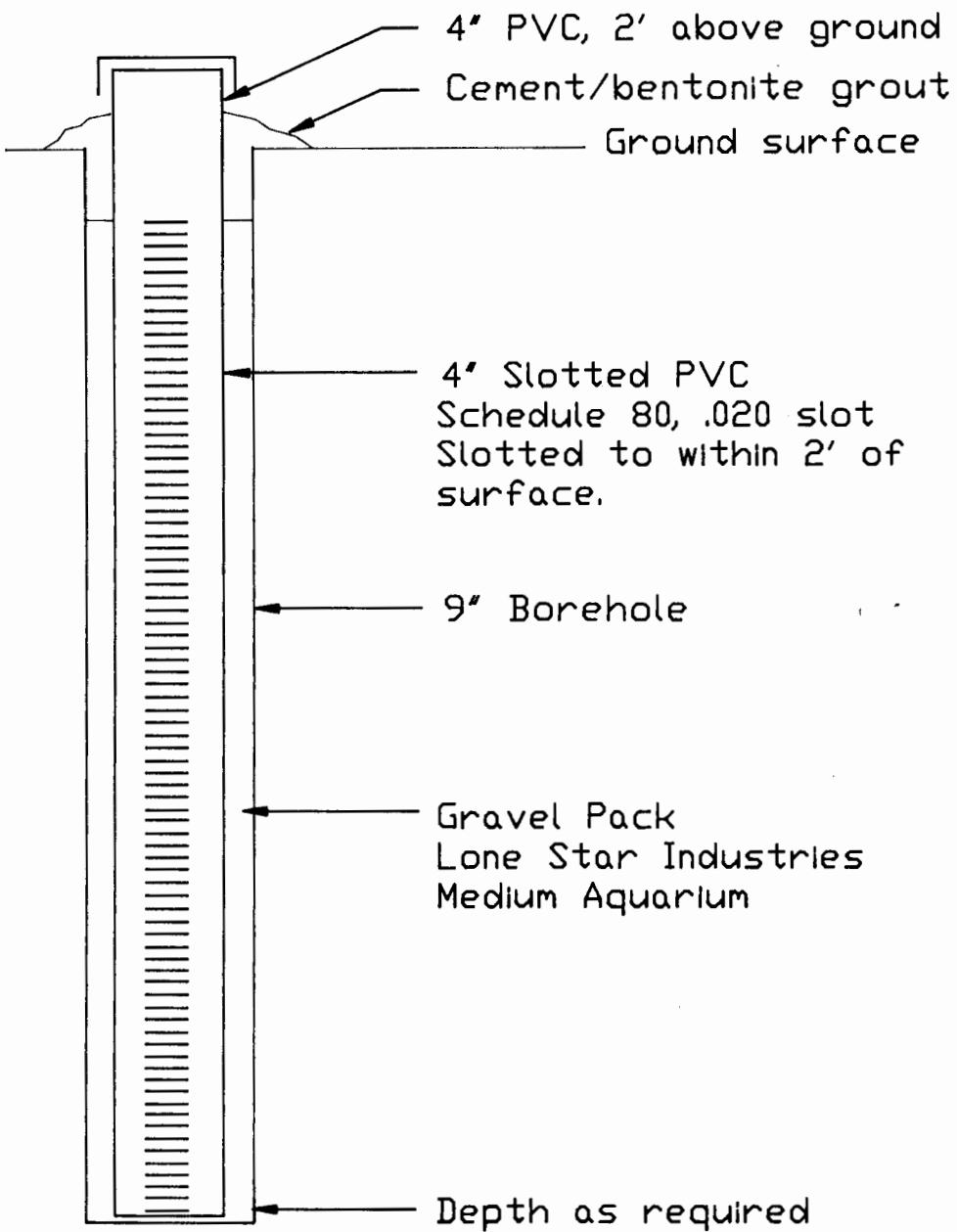


Bermite Division, Whittaker Corporation
Field OVA Results at the 30 foot elevation

	Consulting Engineers	Jun 88
	Twelve Oaks Center 15500 Wayzata Blvd. Wayzata, MN 55391	Fig 26
Wenck Associates, Inc.		







APPENDIX A

WORK PLAN FOR SOIL REMOVAL

LETTER FROM WENCK ASSOCIATES, INC.

TO DEPARTMENT OF HEALTH SERVICES, DATED MARCH 22, 1988



Wenck Associates, Inc.

Consulting Engineers
(612) 475-0858

March 22, 1988

Mr. Alan Sorsher
Department of Health Services
Toxic Substances Control Division
107 S. Broadway, Room 7128
Los Angeles, CA 90012

Re: Soil Characterization at 317 Former Surface Impoundment
Bermite Division - Whittaker Corporation 22116 West
Soledad Canyon Road, Saugus, CA 91350

Dear Mr. Sorsher:

The Work Plan for Soil Characterization at the 317 Former Surface Impoundment contained in the approved RCRA Closure Plan Modifications, requires Bermite to provide EPA and DHS with proposed locations and construction information of at least five probes for organic vapor detection after completion of the soil removal and characterization. We have completed the initial trench excavation to the 30-foot depth and the progress report of this soil characterization will be forwarded to you in a few days.

As you will see in the progress report, while we have compiled a great deal of data concerning the lateral and vertical extent of the contamination, we have not yet fully characterized the extent of the volatile organic compound (VOC) contamination. Because the full extent is not yet known, the precise locations for the proposed probes cannot be determined with certainty. We therefore, propose to perform further characterization prior to installation of the probes. Definition of the horizontal and vertical extent of the VOC is not only important to the objectives of the Closure Plan and for proper placement of the probes around the perimeter of the soils containing VOC, but is also very important for defining the downgradient well locations for the groundwater monitoring plan.

We therefore propose to perform the additional characterization in a manner similar to the characterization completed to date. As can be seen on the attached Figure 1, two additional trenches labeled B and C are proposed to the north of the existing trench.

Mr. Alan Sorsher
March 22, 1988
Page 2

Trenches B and C will each be approximately 150 feet long, 10 feet wide and approximately 30 feet deep. The soils will be removed in the same manner as in the trench completed to date. After removal of the top soils to create a level surface for excavation and sampling control, approximately 6-inch lifts will be removed at at time over the complete area.

The soils will be sampled in the field with a Foxboro OVA-88 portable organic vapor analyzer. The same method of field sampling in a 12-inch deep and $\frac{1}{2}$ -inch diameter borehole on a 25 foot centers will be utilized to characterize the VOC content of the soils and to define the perimeter of the soils containing VOC.

The soils will be removed from the excavation area and spread on adjacent areas located north and east of the 317 area. Attachment 1 of this letter is the results of analysis of metal concentrations in the soils at the background area at Bermite and the 317 area. These results show that the metal concentrations in the soils at the 317 area are not significantly greater than the background as determined by the procedures specified in the approved RCRA Closure Plan Modifications.

In addition to the trenches B and C, it is proposed that five, 8-inch borings be completed as indicated on Figure 1. These borings will be completed to a depth of no further OVA readings. Split spoon soil samples will be taken at 10-foot intervals to characterize the organic compounds and define the vertical extent of the VOC.

A permit to remove the soil containing VOC will be requested from the South Coast Air Quality Management District (SCAQMD). It is proposed to apply for this permit and to request an exemption to SCAQMD rule 1150(c)(4) and to request permission to discharge up to 200 lbs/day of VOC from the excavated soils. It is our belief that an exemption and permission will be granted.

When the horizontal extent of VOC has been determined by the additional excavation proposed above, details of the location and construction of the gas probes will be furnished to DHS and EPA. Also at that time, a system for removing any VOC remaining below the excavation may be presented to DHS and EPA for approval. The alternatives that are envisioned at this time for this additional VOC removal are given below.

Alternative number 1 is to design and install a VOC extraction system consisting of slotted PVC well casing installed to the depth of the vertical extent with a system of headers and laterals connected to a fan and carbon filter system to remove the organics from the airstream.

Mr. Alan Sorsher
March 22, 1988
Page 3

Alternative number 2 is to extract the VOC in-situ. A system to perform this removal is produced by Toxic Treatments USA, Inc. This system is presently operating at San Pedro Terminal Annex, Port of Los Angeles, California. We are currently evaluating the effectiveness of this method.

Alternative number 3 is to continue to excavate the VOC containing soils from the 317 area. This method would be similar to the method proposed above for trenches B and C.

The details of the alternatives, their design, implementation and effectiveness cannot be known until further characterization of the soils at this area is complete.

Please review the above proposal and do not hesitate to call with any questions you may have. We would like to move forward with this characterization work beginning next week. Your attention to this matter is greatly appreciated.

Sincerely,

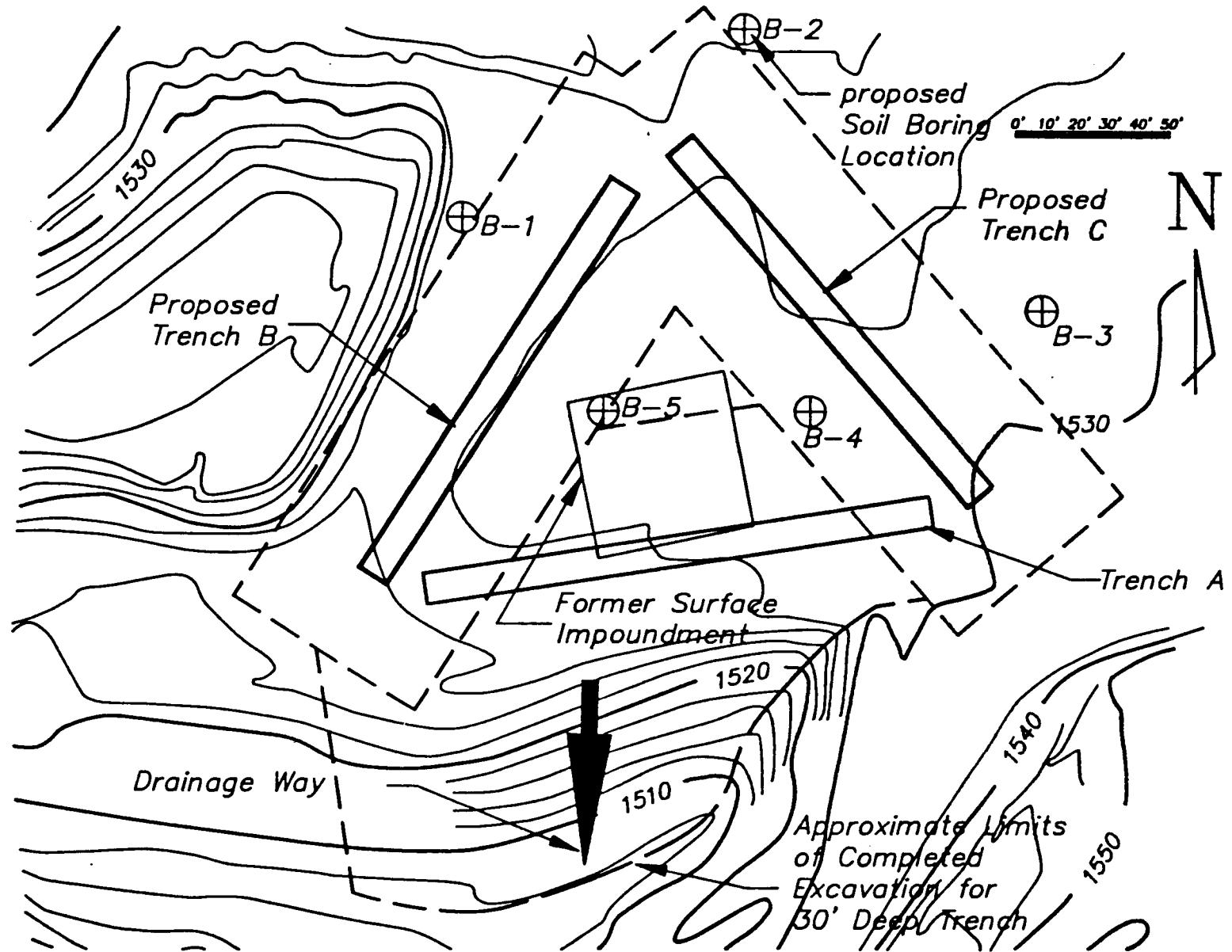
WENCK ASSOCIATES, INC.



Norman C. Wenck, P.E.
President

cc: Michael Fernandez, EPA
Larry Peterson, RWQCB
Elizabeth Lafferty, DHS

:jr



BERMITE DIVISION - WHITTAKER CORPORATION

Proposed 317 Soil Characterization Plan



Wenck Associates, Inc.

Consulting Engineers

Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

MAR 88

Fig. 1

ATTACHMENT 1

METAL ANALYSIS AT BACKGROUND

AREA AND 317 AREA

ANALYSIS RESULTS FROM
SOIL SAMPLING AT
RCRA UNITS

TABLE 2

File = BACKGNSOIL

BACKGROUND AREA METAL CONCENTRATIONS

All Values Are mg/kg (ppm)

SAMPLE I.D.	SAMPLE DEPTH	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Copper	Fluoride	Lead	Magnesium	Mercury	Nickel	Selenium	Silver	Thallium
B6A-2323-1	0.0-0.5'	ND	4.0	50	ND	ND	ND	5100	ND	ND	ND	4.0	1400	ND	ND	ND	ND	ND
B6A-2323-2	0.5-1.0'	ND	3.0	ND	ND	ND	ND	3100	ND	ND	340	ND	1100	ND	ND	ND	ND	ND
B6A-2323-3	1.0-2.0'	ND	5.0	76	ND	7.0	ND	3100	ND	ND	ND	ND	3300	ND	20	ND	ND	ND
B6A-2323-4	2.0-3.0'	ND	ND	ND	ND	ND	ND	1500	ND	ND	ND	ND	960	ND	ND	ND	ND	ND
B6A-2323-5	3.0-4.0'	ND	4.0	ND	ND	ND	ND	1800	ND	ND	170	ND	1200	ND	ND	ND	ND	ND
B6A-2323-6	4.0-5.0'	ND	ND	ND	ND	ND	ND	1600	ND	ND	180	ND	1200	ND	ND	ND	ND	ND
B6A-2822-1	0.0-0.5'	ND	5.0	53	ND	4.0	ND	6200	ND	ND	420	4.0	1700	ND	ND	ND	ND	ND
B6A-2822-2	0.5-1.0'	ND	4.0	ND	ND	ND	ND	4300	ND	ND	180	12	1400	ND	ND	ND	ND	ND
B6A-2822-3	1.0-2.0'	ND	4.0	ND	ND	ND	ND	2200	ND	ND	130	ND	1700	ND	ND	ND	ND	ND
B6A-2822-4	2.0-3.0'	ND	ND	ND	ND	ND	ND	2100	ND	ND	160	ND	1100	ND	ND	ND	ND	ND
B6A-2822-5	3.0-4.0'	ND	5.0	ND	ND	ND	ND	1700	ND	ND	160	ND	1300	ND	ND	ND	ND	ND
B6A-2822-6	4.0-5.0'	ND	6.0	ND	ND	ND	ND	2000	ND	ND	110	ND	1600	ND	ND	ND	ND	ND
B6A-0115-1	0.0-0.5'	ND	5.0	52	ND	6.0	ND	4500	ND	23	390	4.0	1500	ND	ND	ND	ND	ND
B6A-0115-2	0.5-1.0'	ND	4.0	64	ND	7.4	ND	5700	ND	ND	180	4.0	1900	ND	ND	ND	ND	ND
B6A-0115-3	1.0-2.0'	ND	4.0	ND	ND	8.2	ND	5300	ND	14	380	4.0	2100	ND	ND	ND	ND	ND
B6A-0115-4	2.0-3.0'	ND	5.0	56	ND	9.0	ND	3400	ND	ND	ND	4.0	2300	ND	ND	ND	ND	ND
B6A-0115-5	3.0-4.0'	ND	4.0	ND	ND	ND	ND	2100	ND	ND	160	4.0	1100	ND	ND	ND	ND	ND
B6A-0115-6	4.0-5.0'	ND	6.0	ND	ND	ND	ND	1800	ND	ND	120	ND	1200	ND	ND	ND	ND	ND
B6A-1223-1	0.0-0.5'	ND	5.0	ND	ND	6.0	ND	3600	ND	ND	ND	ND	1600	ND	ND	ND	ND	ND
B6A-1223-2	0.5-1.0'	ND	6.0	ND	ND	6.0	ND	2100	ND	ND	270	ND	1400	ND	ND	ND	ND	ND
B6A-1223-3	1.0-2.0'	ND	6.0	ND	ND	ND	ND	1600	ND	ND	ND	ND	1500	ND	ND	ND	ND	ND
B6A-1223-4	2.0-3.0'	ND	5.0	ND	ND	ND	ND	1500	ND	ND	260	ND	1200	ND	ND	ND	ND	ND
B6A-1223-5	3.0-4.0'	ND	5.0	ND	ND	ND	ND	1900	ND	ND	ND	ND	1400	ND	ND	ND	ND	ND
B6A-1223-6	4.0-5.0'	ND	6.0	ND	ND	ND	ND	2000	ND	ND	ND	ND	1700	ND	ND	ND	ND	ND
Detection Limit	10	3.0	50	0.50	5.0	0.50	1000	50	10	100	3.0	500	0.10	10	0.50	3.0	5.0	
Average Concentration	10	4.6	52	0.50	5.7	0.50	2925	50	11	184	3.7	1538	0.10	10	0.50	3.0	5.0	
Upper Confidence Limit	10	4.9	54	0.50	6.0	0.50	3445	50	12	220	4.3	1710	0.10	11	0.50	3.0	5.0	
Lower Confidence Limit	10	4.2	50	0.50	5.3	0.50	2405	50	10	148	3.0	1361	0.10	9.7	0.50	3.0	5.0	
Standard Deviation	0.0	1.0	5.9	0.00	1.1	0.00	1487	0	2.7	103	1.8	499	0.00	2.0	0.00	0.0	0.0	
Variance	0.0	1.0	35	0.00	1.3	0.00	2210652	0	7.5	10651	3.4	248730	0.00	4.2	0.00	0.0	0.0	
Coefficient of Variation	0.0	22	11	0.00	20	0.00	51	0	26	56	50	32	0.00	20	0.00	0.0	0.0	
Maximum Value	ND	6.0	76	ND	9.0	ND	6200	50	23	420	12	3300	ND	20	ND	ND	ND	
Total Number of Samples	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	

NOTE:

- 1) All No Detection Values (ND) Have Been Given A Value Equal To The Detection Limit For Purposes Of Calculation
- 2: t = 1.714 in calculation of confidence limits

18-Mar-88

WENCK ASSOCIATES, INC.

**ANALYSIS RESULTS FROM
SOIL SAMPLING AT
RCRA UNITS**

TABLE 3

FILE = 317DATAF

METAL CONCENTRATIONS AT 317 AREA, 0 TO 2 FEET
All Values Are mg/kg (ppm)

18-Mar-88

WENCK ASSOCIATES, INC.

ANALYSIS RESULTS FROM
SOIL SAMPLING AT
RCRA UNITS

TABLE 3

FILE = 317DATAF

METAL CONCENTRATIONS AT 317 AREA, 0 TO 2 FEET
All Values Are mg/kg (ppm)

SAMPLE I.D.	SAMPLE DEPTH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Background Average		4.6	52	0.50	50	3.7	0.10	0.50	3.0
Background Variance		1.0	35	0.00	0	3.4	0.00	0.00	0.0
t* = test statistic		-3.9	-1.2			1.0			
t'		1.7	1.7			1.7			

NOTE:

All No Detection (ND) values have been
given a value equal to the detection limit
for purposes of calculation

Std Dev. and Var. are based on n - 1

$t^* = (\text{sample avg.} - \text{background avg.}) / \sqrt{(\text{sample var.}/\text{# samples}) + (\text{background var.}/\text{# samples})}$

If $t^* > t'$ then sample avg. ≠ background avg.

**ANALYSIS RESULTS FROM
SOIL SAMPLING AT
RCRA UNITS**

TABLE 4

File = 317met16

METAL CONCENTRATIONS AT 317 AREA, 16 TO 18 FEET
All Values Are mg/kg (ppm)

SAMPLE I.D.	SAMPLE DEPTH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
317-3369-4	16.0-16.5'	ND	52	ND	ND	ND	ND	ND	ND
317-3369-5	16.5-17.0'	ND	59	ND	22	ND	ND	ND	ND
317-3369-6	17.5-18.0'	ND	73	ND	250	ND	ND	ND	ND
317-3752-4	16.0-16.5'	ND	30	ND	7	ND	ND	ND	0.43
317-3752-5	16.5-17.0'	ND	43	ND	6	ND	ND	ND	ND
317-3752-6	17.5-18.0'	ND	39	ND	ND	ND	ND	ND	ND
317-0745-4	16.0-16.5'	ND	47	ND	ND	ND	ND	ND	ND
317-0745-5	16.5-17.0'	ND	36	ND	ND	ND	ND	ND	ND
317-0745-6	17.5-18.0'	ND	40	ND	ND	ND	ND	ND	ND
317-6089-4	16.0-16.5'	ND	69	ND	ND	ND	ND	ND	ND
317-6089-5	16.5-17.0'	ND	32	ND	7	ND	ND	ND	ND
317-6089-6	17.5-18.0'	ND	ND	ND	ND	ND	ND	ND	ND
317-2092-4	16.0-16.5'	ND	62	ND	6	ND	ND	ND	ND
317-2092-5	16.5-17.0'	ND	55	ND	6	ND	ND	ND	1.7
317-2092-6	17.5-18.0'	ND	66	ND	ND	ND	ND	ND	ND
317-1397-4	16.0-16.5'	ND	33	ND	6	ND	ND	ND	ND
317-1397-5	16.5-17.0'	ND	53	ND	8	ND	ND	ND	ND
317-1397-6	17.5-18.0'	ND	60	ND	5	ND	ND	ND	ND
317-6331-4	16.0-16.5'	ND	57	ND	ND	12	ND	ND	ND
317-6331-5	16.5-17.0'	ND	67	ND	ND	9.0	ND	ND	0.45
317-6331-6	17.5-18.0'	ND	78	ND	ND	ND	ND	ND	ND
317-7573-4	16.0-16.5'	ND	76	ND	8	ND	ND	ND	ND
317-7573-5	16.5-17.0'	ND	32	ND	7	ND	ND	ND	ND
317-7573-6	17.5-18.0'	ND	63	ND	6	ND	ND	ND	ND
Detection Limit		2.0	20	2.0	5	5.0	0.20	1.0	0.40
Sample Average Concentration		2.0	53	2.0	17	3.6	0.20	1.0	0.46
Upper Confidence Limit		2.0	58	2.0	34	4.3	0.20	1.0	0.55
Lower Confidence Limit		2.0	48	2.0	-0.8	2.9	0.20	1.0	0.37
Sample Standard Deviation		--	15	--	50	2.1	--	--	0.26
Sample Variance		--	221	--	2483	4.3	--	--	0.07
Coefficient of Variation		--	28	--	300	58	--	--	57
Maximum Value		ND	78	ND	250	12	ND	ND	1.7
Total Number of Samples		24	24	24	24	24	24	24	24

18-Mar-88

WENCK ASSOCIATES, INC.

ANALYSIS RESULTS FROM
SOIL SAMPLING AT
RCRA UNITS

TABLE 4

File = 317met16

METAL CONCENTRATIONS AT 317 AREA, 16 TO 18 FEET
All Values Are mg/kg (ppm)

SAMPLE I.D.	SAMPLE DEPTH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Background Average		4.6	52	0.50	50	3.7	0.10	0.50	3.0
Background Variance		1.0	35	0.00	0	3.4	0.00	0.00	0.0
t* = test statistic			0.3		-3.3	-0.1			-48
t'			1.7		1.7	1.7			1.7

Note:

All No Detection Values (ND) Have Been Given A Value
Equal To The Detection Limit For Purposes Of Calculation

Std Dev. and Var. are based on n -1

$t^* = (\text{sample avg.} - \text{background avg.}) / \sqrt{(\text{sample var.}/\# samples) + \text{background var.}/\# samples})}$

If $t^* > t'$ then sample avg. \neq background avg.

APPENDIX B

**APPROVAL OF WORK PLAN BY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT,
BY COPY OF LETTER DATED APRIL 7, 1988**



RECEIVED BY
WENCK ASSOCIATES INC.

**South Coast
AIR QUALITY MANAGEMENT DISTRICT**

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

APR 14 1988

April 7, 1988

Mr. Christopher F. Thompson
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

Dear Mr. Thompson:

Reference is made to your letter dated March 28, 1988 regarding the proposed excavation of hydrocarbon contaminated soil at 22116 W. Soledad Canyon Rd. in Saugus, California. It is our understanding that this excavation will consist of removing an additional 3,344 cubic yards of soil by excavating trenches B and C. Based on the information provided and current requirements, the South Coast AQMD will not require a written permit for this final proposed excavation and thus grants a conditional exemption pursuant to District Rule 1150 (c)(4). Please be advised however that this will be the final exemption granted for the remedial investigation of the Whittaker Bermite Division facility.

CONDITIONS

1. Excavation of one trench, either "B or C" shall be completed with the remedial investigation finished before the remaining trench is excavated.
2. No more than 1722 cubic yards per trench shall be excavated.
3. All soil stockpiled onsite shall be covered with polyethylene sheeting.
4. All conditions required by the Department of Health Services in their letter to Mr. Gorden Louttit dated November 16, 1987 shall remain active for this final remedial investigation (copy attached).
5. All requirements stated in the original exemption of September 28, 1987 by the District shall remain active for this final remedial excavation (copy attached).

Mr. Thompson

-2-

April 7, 1988

6. Excavation should not be conducted when the wind speed is greater than 15 mph average (over 15 minutes) or the wind speed instantaneously exceeds 25 mph.
7. During excavation, all work areas, excavated material and unpaved roadways should be watered down until the surface is moist and then maintained in a moist condition to minimize dust.

Please be advised that the District is currently developing proposed Rule 1166 - Volatile Organic Compound Emissions from Decontamination of Soil, which may be applicable to your aeration operations. The public hearing for Rule 1166 is currently scheduled for June 3, 1988. Additional information on this rule may be obtained from Ms. Linda Basilio of our Rule Development Division at (818) 572-2175.

If you have any further questions, please call Mr. Greg Wood at (818) 571-5163.

Very truly yours,

William J. Dennison
Director of Engineering



Mohsen Nazemi, P.E.
Supervising Engineer

GGW

Enclosures (2)

DEPARTMENT OF HEALTH SERVICES
107 SOUTH BROADWAY, ROOM 7011
LOS ANGELES, CA 90012
(213) 620-2380



Rec'd / 11/30/87

November 16, 1987

Mr. Gorden Louttit
Whittaker Corporation
10880 Wilshire Blvd.
Los Angeles, CA 90024-9990

Dear Mr. Louttit:

HAZARDOUS WASTE FACILITY PERMIT VARIANCE: EPA I.D. CAD 064573108
22116 West Soledad Canyon Road, Saugus, CA 91350

On October 27, 1987 you applied to the Department of Health Services for a variance from the Hazardous Waste Facility Permit requirements of Chapter 30, Division 4, Title 22, California Administrative Code (CAC). Your request was for the short-term storage of piles of soil containing low levels of organic solvents pending lab analysis for heavy metals and volatilization of the organic solvents.

A review of your application, the closure plan for your facility and related documents indicated the following:

1. Up to 2500 cubic yards of soil will be stored in piles up to three feet thick. The soil may contain as much as 20 parts per billion TCE on a weight basis, or less than one pound total.
2. The spreading of possible contamination to the subsoils or groundwater will be prevented by protecting the soil piles from becoming wet. This will be accomplished by the use of berms to prevent run-on and plastic tarps to prevent infiltration of rainfall.
3. The South Coast Air Quality Management District has granted an exemption from Rule 1150 (c)(4) for the work as long as rules pertaining to nuisances and fugitive dust are complied with.
4. Soils with field vapor readings of over 500 ppm on a volume basis will be immediately removed from the site upon excavation. Soils with lower concentrations will be stored on the piles and disked to allow volatilization.

Based upon these findings and pursuant to Section 25143, Health and Safety Code and Section 66310 (a)(1), Title 22 CAC, we find that the solvents present in the proposed soil piles at your

facility are insignificant as a potential hazard to human health and safety, livestock and wildlife because of its small quantity and low concentration. Therefore, you are granted a variance from the Hazardous Waste Facility Permit requirements of Article 4, Chapter 30, Division 4, Title 22, CAC subject to the following conditions:

1. The soil piles shall be kept dry so that no migration to subsoils occurs. Berms and plastic tarps shall be maintained and inspected at least weekly and after rainfalls and windy periods. The upper surfaces of the piles shall be graded so that rain falling on the plastic tarps drains away from the piles.

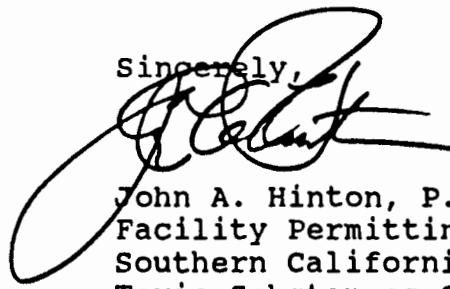
Sufficient equipment, supplies and personnel shall be maintained so that the piles will be quickly covered if rain threatens.

The soils shall be kept moist only to the point that fugitive dusts are controlled.

2. As discussed in the Closure Plan, in the event that any of the soil piles show contamination by heavy metals or other Appendix VIII constituents, the pile(s) must then be managed as hazardous waste.
3. A copy of this variance must remain at the facility.
4. Notify the Department of any changes in your facility operations that would negate the above findings.
5. The soil piles may remain up to 60 days.

If you have any questions, please contact Alan Sorsher at the above telephone number.

Sincerely,



John A. Hinton, P.E. Chief,
Facility Permitting Unit
Southern California Section
Toxic Substances Control Division

cc:

Anastacio Medina, LA County Haz. Waste Program
2615 S. Grand Ave., 6th Floor
Los Angeles, CA 90007

Mr. Gorden Louttit

-3-

**Greg Wood, SCAQMD
9150 Flair Drive
El Monte, CA 91731**

**Norman Wenck
Wenck Associates,
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391**

**Caroline Cabias, DHS, HWMS-TSCD, Sacramento
Financial Responsibility Unit - DHS, Sacramento**

(Adopted May 7, 1976)

RULE 402. NUISANCE

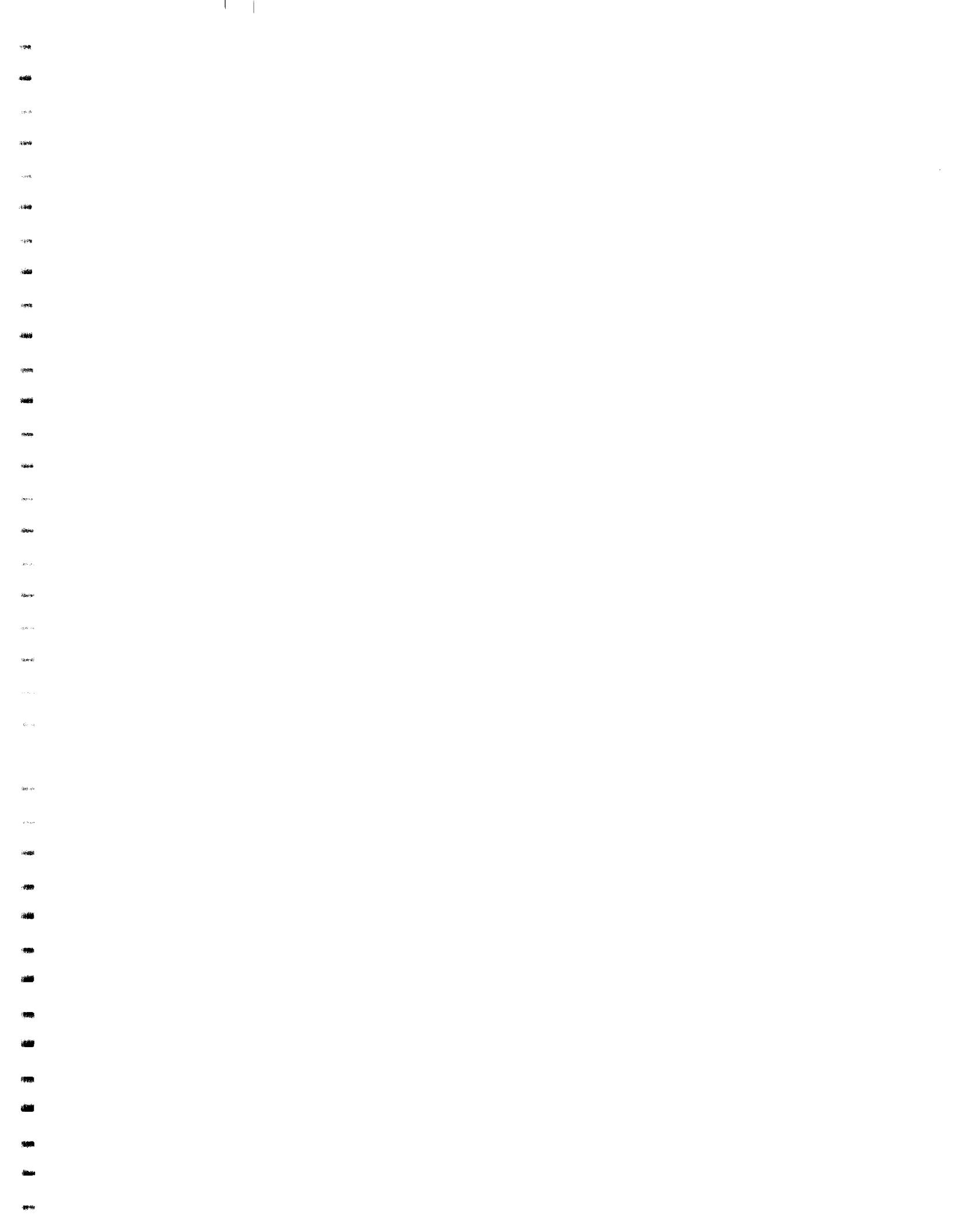
A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

(Adopted May 7, 1976)

RULE 403. FUGITIVE DUST

- (a) A person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source. (Does not apply to emissions emanating from unpaved roadways open to public travel or farm roads. This exclusion shall not apply to industrial or commercial facilities.)
- (b) A person shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
- (c) A person shall not cause or allow particulate matter to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on high volume samplers at the property line for a minimum of five hours.
- (d) A person shall take every reasonable precaution to prevent visible particulate matter from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to, the removal of particulate matter from equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.
- (e) Subsections (a) and (c) shall not be applicable when the wind speed instantaneously exceeds 40 kilometers (25 miles) per hour, or when the average wind speed is greater than 24 kilometers (15 miles) per hour. The average wind speed determination shall be on a 15 minute average at the nearest official air-monitoring station or by wind instrument located at the site being checked.
- (f) The provisions of this rule shall not apply to agricultural operations.



APPENDIX C

CHANGE TO WORK PLAN FOR SOIL REMOVAL-
LETTER FROM WENCK ASSOCIATES, INC. TO
DEPARTMENT OF HEALTH SERVICES, DATED MAY 4, 1988



Wenck Associates, Inc.

May 4, 1988

Consulting Engineers
(612) 475-0858
FAX - (612) 476-0504

Mr. Alan Sorsher
Department of Health Services
Toxic Substances Control Division
107 South Broadway, Room 7128
Los Angeles, CA 90012

**Re: Soil Characterization Activities at the
317 Area, Bermite Division, Whittaker
Corporation, Saugus, California**

Dear Mr. Sorsher:

The purpose of this letter is to verify our discussions and agreements in our telephone conversation on April 29, 1988. As I requested, you have agreed that core samples for laboratory analysis will be taken at two foot intervals instead of the six inch intervals at which we have been sampling. At the two foot intervals (every fourth lift), two core samples will be taken, one at an area of a relatively high Organic Vapor Analyzer (OVA) reading, and one at a relatively low or zero OVA reading. For every 20 core samples taken or for every group of samples that are taken, one duplicate core sample will be taken also. At our present rate of characterization, one duplicate sample per week will be taken.

The core samples will continue to be analyzed by EPA method 8240. In accordance with the approved RCRA Closure Plan, in addition to the field duplicates that are to be taken and analyzed, laboratory duplicates are also being analyzed. We are presently running a duplicate laboratory analysis after every 10 core samples.

In addition to the core samples being taken and analyzed for volatile organics by EPA Method 8240, two core samples per trench will be analyzed for semi-volatile organics (base-neutral-acid compounds) by EPA Method 8270. We are presently taking core samples for this analysis and archiving them in a refrigerator at the Bermite facility to insure that when we reach the 30 foot depth, we will have core samples from an area of high OVA readings.

In addition to the core sampling, we are continuing to sample the soils in each lift with the OVA. As you requested, we will be taking field OVA duplicate readings. The duplicates will be taken approximately four inches away



Wenck Associates, Inc.

**Mr. Alan Sorsher
Page Two
May 4, 1988**

Consulting Engineers
(612) 475-0858
FAX - (612) 476-0504

from the previous sampling location and towards the outside edge of the excavation. At least one high node and one low node per lift will be sampled in this manner. This will insure that at least 10 percent of the field OVA readings will have duplicate samples.

I believe that the above summarizes and verifies the discussions we had about the soil characterization activities at the 317 area. If you have any comments or questions on these matters, please do not hesitate to call me. I will be at the Bermite facility during the week of May 9, 1988.

Sincerely,

WENCK ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Christopher F. Thompson".

Christopher F. Thompson, P.E.

CFT/cmk

cc: Gordon Louttit, Whittaker
John Peloquin
Michael Fernandez, USEPA

APPENDIX D

CHAIN OF CUSTODY DOCUMENTATION

TRENCH B

Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

No
Norm Wenck

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	EPA 87240	REMARKS
SAMPLERS (Signature)	BERMITE-317 AREA TRENCH B							
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION			
	88							
5/10	1515		x	Node 5-1-16 ✓	3409-11	✓ +		4 ppm
5/10	1515		x	Node 9-1-16 ✓	-2	✓ +		6 ppm
5/12	1530		x	Node 8-4-20 ✓	-3	✓ +		75 ppm
5/12	1530		x	Node 5-3-20 ✓	-4	✓ +		0 ppm
5/14	1130		x	Node 4-4-24 ✓	-5	✓ +		300 ppm
5/14	1130		x	Node 2-2-24 ✓	-6	✓ +		0 ppm
5/14	1130		x	Node 2-2-24 (Duplicate)	-7	✓ +		0 ppm
5/16	0845		x	Node 8-4-28 ✓	-8	✓ +		120 ppm
5/16	0845		x	Node 8-4-28 (Duplicate)	-9	✓ +		150 ppm
5/16	0845		x	Node 3-2-24 ✓	-10	✓ +		4 ppm
5/18	0940		x	Node 4-2-32 ✓	-11	✓ +		4 ppm
5/18	0940		x	Node 8-4-32	-12	✓ +		800 ppm
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)		
Gregory W. Smith			5/18/88	1312	CML/Tempin	5/18/88 1:15		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)		
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks

Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

No.

FIELD COORDINATOR

Norm Wenck

PROJ. NO.	PROJECT NAME <u>BERMITE</u>					NUMBER OF CONTAINERS	EPA 8240	REMARKS			
SAMPLERS (Signature)	<u>Todd Wenck</u> <u>Norman Wenck</u>										
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION						
1488	5/19	1500		✓	Trench B, Node 6-1-36	^{BRAISES} ONE Shovel	J		OVA = 4 ppm		
B-74-36	5/19	1500		✓	TRENCH B, NODE 7-4-36	"	J		OVA = 800 ppm		
B-84-36	5/23	0845		✓	TRENCH B, Node 8-4-38	"	✓		OVA = 20 ppm		
B-64-36	5/23	0845		✓	TRENCH B, Node 6-4-38	"	✓		OVA = 880 ppm		
B-32-40	5/24	0650		✓	TRENCH B, Node 3-2-40	"	✓		OVA = 14 ppm		
B-74-40	5/24	0655		✓	TRENCH B, Node 7-4-40	"	✓		OVA = 700 ppm		
Relinquished by: (Signature) <u>Norm Wenck</u>			Date 5/24/88	Time 1432	Received by: (Signature) <u>M. A. Hamper</u>	Relinquished by: (Signature)			Date 5/24/88	Time	Received by: (Signature)
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)			Date	Time	Received by: (Signature)
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks			



Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

Weyzata, MN 55391
CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

Norm WENCK

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	8240	624-8240	REMARKS
SAMPLERS (Signature)	BERMITE - 317 AREA TRENCH IS								
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION				
5/25	0615				WB NODE 6-4-99	1	✓		OVA 180
5/25	0626				WB NODE 2-3-99	1	✓		OVA 15
5/25	0855				WF NODE 6-4-98	1	✓		OVA 100
5/25	0850				WB NODE 7-2-98	1	✓		OVA 2
5/26	0630				WB NODE 7-3-52	1	✓		OVA 22
5/26	0635				WB NODE 6-3-52	1	✓		OVA 7
5/26	0640				WB NODE (DUPLICATE) 7-3-52	1	✓		OVA 40
5/27	0915				WB WELL #5	2	✓		

Relinquished by: (Signature) <i>Jed) Wenz</i>	Date 5/27/88	Time 9:35	Received by: (Signature) <i>M. A. Henrich</i>	Relinquished by: (Signature)	Date 5/27/88	Time 9:40	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks	

WAI
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Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

NORM WENCK

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	REMARKS							
	TRENCH TERMITIC - 317 AREA B/C						8	2	0	8	2	0		
SAMPLERS (Signature)														
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION									
5/18	1010				WB 7-1-56	1	X					OVA 9		
5/28	1005				WB 8-2-56	1	X					OVA 8		
6/1	1520				WB 7-4-60	1	X					OVA 8600		
6/1	1510				WB 8-1-60	1	X					OVA 0		
6/2	1440				WB 3-1-60	1	X					OVA 1		
6/2	1450				WB 4-1-60	1	X					OVA 5		
6/10	0755				WB 7-4-56	1	X					OVA 9000		
6/1	1345				VB 7-4-60	1	X					OVA 8800		
					TRENCH CVV									
6/2	1430				VB 3-3-60	1	X					OVA 4000		
Relinquished by: (Signature)					Date	Time	Received by: (Signature)		Relinquished by: (Signature)			Date	Time	Received by: (Signature)
<i>Norm Wenck</i>					6/2	1010	<i>M. H. Jamison</i>							
Relinquished by: (Signature)					Date	Time	Received by: (Signature)		Relinquished by: (Signature)			Date	Time	Received by: (Signature)
Relinquished by: (Signature)					Date	Time	Received for Laboratory by: (Signature)		Date	Time	Remarks			

TRENCH C



Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

Wayzata, MN 55391
CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

Norm Wenzel

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Henny He	4-22-88	14:00	<u>Tom Bain</u>				
Tom Bain	4/22/88	14:50	Martina Anna (Kmuli)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks	



Wenck Associates, Inc.
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Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

Norn Wenck

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	EPA # 8420	REMARKS				
SAMPLERS (Signature)												
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION							
C-6A	4/22	1300		x	NODE 4-2-6A	1		x				
C-7A	4/22	1412		x	NODE 4-3-7A	1		x				
C-8A	4/22	1520		x	NODE 4-3-8A	1		x				
C-9	4/22	1635		x	NODE 4-3-9	1		x				
C-10	4/24	0800		x	NODE 4-3-10	1		x				
C-11	4/24	0930		x	NODE 4-3-11	1		x				
C-12	4/24	1020		x	NODE 9-1-12	1		x				
C-13	4/24	1310		x	NODE 4-3-13	1		x				
C-14	4/24	1510		x	NODE 4-2-14	1		x				
Relinquished by: (Signature)				Date	Time	Received by: (Signature)	Relinquished by: (Signature)			Date		
Gregory W. Smith				4/26/88	1400	<u>T. B.</u>						
Relinquished by: (Signature)				Date	Time	Received by: (Signature)	Relinquished by: (Signature)			Date		
<u>T. B.</u>				4/26/88	1450	<u>Martha L. Huna</u>				4/26/88 2:55		
Relinquished by: (Signature)				Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks			



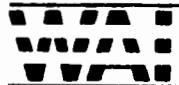
Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

Weyauwega, WI 53591
CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

Nora Wenck

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Gregory W Smith	4/26/88	1400	<u>Tom B.</u>				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
<u>Tom B.</u>	4/26/88	1450	<u>Martha M. Miller</u>		4/26/88	2:55	
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks	



Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

XL 2852

FIELD COORDINATOR

Norm Wenck

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	0240 80 1 EL	REMARKS				
	BERMITE-TRENCH C											
SAMPLERS (Signature)												
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION							
4-3-23	4/26	1430		x	C-4-3-23	2852-1	1					
6-1-24	4/27	0645		x	C-6-1-24	-2	1					
4-3-25	4/27	0915		x	C-4-3-25	-3	1					
4-3-26	4/27	1205		x	C-4-3-26	-4	1					
4-3-27	4/27	1640		x	C-4-3-27	-5	1					
6-1-28	4/28	0800		x	C-6-1-28	-6	1					
4-3-29	4/28	1415		x	C-4-3-29	-7	1					
4-3-30	4/28	1700		x	C-4-3-30	-8	1					
4-3-31	4/28	1835		x	C-4-3-31	-9	1					
7-1-32	4/29	0900		x	C-7-1-32	-10	1					
Relinquished by: (Signature)			Date	Time	Received by: (Signature)		Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Gregory W. Smith			4/29	1345	Tom Bui		Tom Bui		4/29/88	14:40	MFR-Himself	
Relinquished by: (Signature)			Date	Time	Received by: (Signature)		Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)		Date	Time	Remarks			

WENCK ASSOCIATES, INC.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

FIELD COORDINATOR

North Wenck

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	REMARKS	
	BERMITE - WHITAKER TRENCH							8240
SAMPLERS (Signature)								
<i>Siggy W. Smith</i>								
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION			
33	4/29	1100		x	Node C-4-3-33	1	x	
34	4/29	1410		x	Node C-4-3-34	1	x	
35	4/29	1630		x	Node C-4-3-35	1	x	
36	4/30	0700		x	Node C-8-1-36	1	x	
37	4/30	0955		x	Node C-4-3-37	1	x	
37	4/30	0955		x	Node C-5-3-37	1	x	
41	5/2	0745		x	Node C-4-3-41	1	x	
41	5/2	0745		x	Node C-7-1-41	1	x	
45	5/3	0800		x	Node C-4-3-45	1	x	
45	5/3	0800		x	Node C-6-2-45	1	x	
49	5/4	0700		x	Node C-4-3-49	1	x	
49	5/4	0700		x	Node C-6-1-49	1	x	
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)		
<i>Siggy W. Smith</i>			5/6/88	1345	<i>John B.</i>	<i>John B.</i>		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)		
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks

KRB #2875

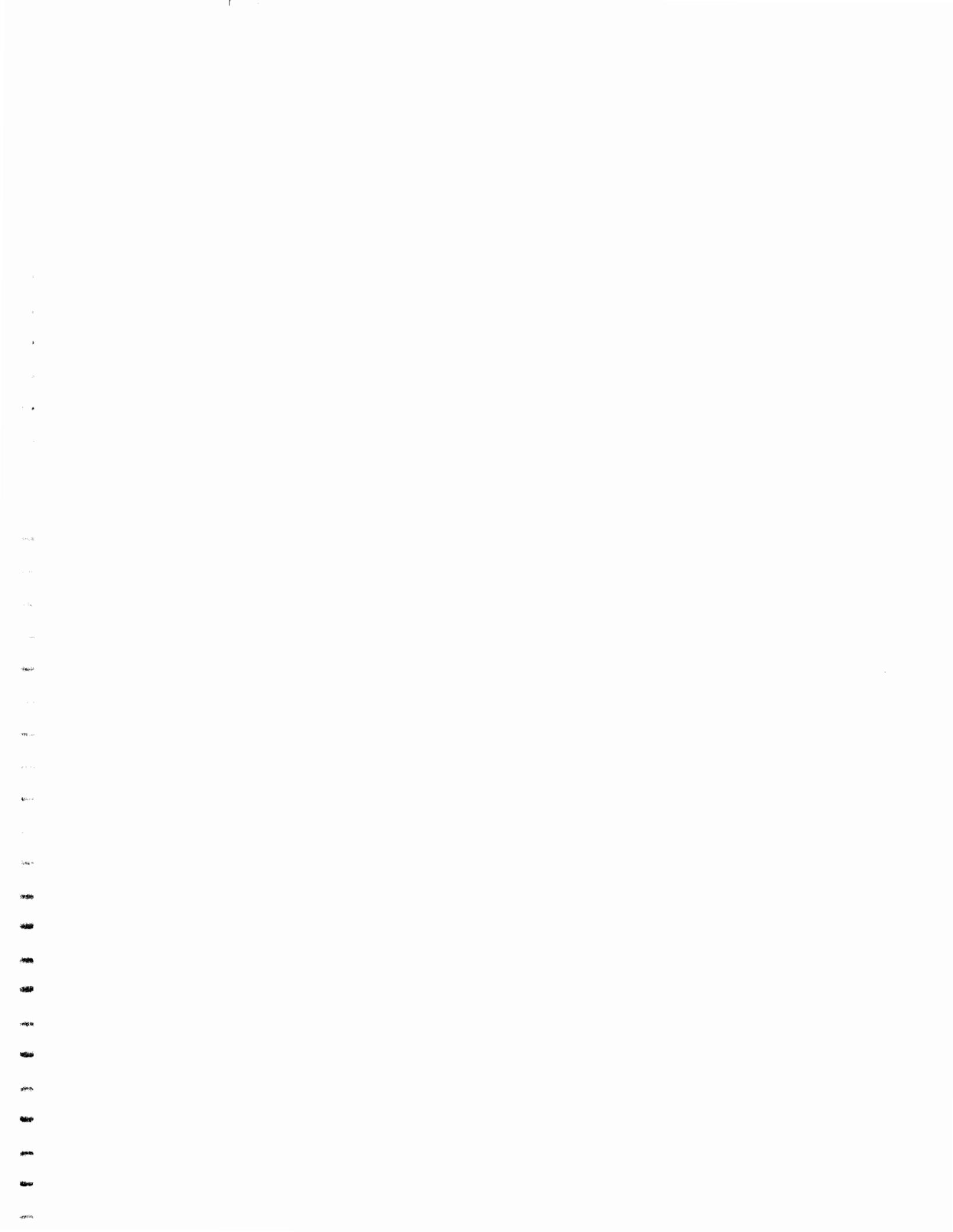
Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391

CHAIN OF CUSTODY RECORD

FIELD COORDINATOR

Norm Wenck

PROJ. NO.	PROJECT NAME					NUMBER OF CONTAINERS	0240 0270	REMARKS	
	BERNIE-WHITAKER TRENCH								
SAMPLERS (Signature)	Gregory W. Smith								
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION				
S3	7/4	1800		x	Node C-9-2-53	1	x		
S3	7/4	1800		x	Node C-3-2-53	1	x		
S7	7/5	1700		x	Node C-8-2-57	1	x		
S7	7/5	1700		x	Node C-3-2-57	1	x		
49	7/4	0100		x	Duplicate Node C-6-1-49	1	x		
S7	7/5	1700		x	Node C-3-2-57	2	x		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Gregory W. Smith			7/6/88	1345	<u>Ben</u>	<u>Ben</u>	7/6/88	1445	Lucky M. Smith
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks	
Lab. #2875									



APPENDIX E

LABORATORY REPORTS OF SAMPLES ANALYZED FOR VOC

TRENCH B

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/06/88

LAB. NO.: 2883-1

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-3-3-1

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	ug/kg	Detection Limit	Compound	ug/kg	ug/kg	Detection Limit
Acetone	ND	5.0		trans-1,2-Dichloroethene	ND	5.0	
Benzene	ND	5.0		1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0		cis-1,3-Dichloropropene	ND	5.0	
Bromoform	ND	5.0		trans-1,3-Dichloropropene	ND	5.0	
Bromomethane	ND	10.0		Ethyl Benzene	ND	5.0	
Carbon Tetrachloride	ND	5.0		Methyl Ethyl Ketone	110	5.0	
Chlorobenzene	ND	5.0		Methylene Chloride	ND	5.0	
Chloroethane	ND	10.0		Styrene	ND	5.0	
Chloroform	ND	5.0		1,1,2,2-Tetrachloroethane	ND	5.0	
Chloromethane	ND	10.0		Tetrachloroethene	ND	5.0	
Dibromochloromethane	ND	5.0		Toluene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0		1,1,1-Trichloroethane	ND	5.0	
1,3-Dichlorobenzene	ND	5.0		1,1,2-Trichloroethane	ND	5.0	
1,4-Dichlorobenzene	ND	5.0		Trichloroethene	ND	5.0	
1,1-Dichloroethane	ND	5.0		Trichlorofluoromethane	ND	5.0	
1,2-Dichloroethane	ND	5.0		Vinyl Chloride	ND	10.0	
1,1-Dichloroethene	ND	5.0		Xylenes	ND	5.0	

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

Eric Lu for John Quinn.
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/06/88

LAB. NO.: 2883-2

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-5-1-1

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	60
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/07/88

LAB. NO.: 2883-3

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-6-3-5

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
	ug/kg		ug/kg
Acetone	6.2	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	230 5.0
Chlorobenzene	ND	Methylene Chloride	ND 5.0
Chloroethane	ND	Styrene	ND 5.0
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND	Tetrachloroethene	ND 5.0
Dibromochloromethane	ND	Toluene	ND 5.0
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/07/88

LAB. NO.: 2883-4

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-4-1-5

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

Eric Lu for John Quinn
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/09/88

LAB. NO.: 2883-5

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-5-3-8

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection ug/kg	Limit ug/kg	Compound	Detection ug/kg	Limit ug/kg
Acetone	14	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

Eri Lu for John Quinn
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/09/88

LAB. NO.: 2883-6

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-4-1-8

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
	ug/kg		ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/10/88

LAB. NO.: 2883-7

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-7-3-13

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	ug/kg	Detection Limit	Compound	ug/kg	ug/kg	Detection Limit
Acetone	ND	5.0		trans-1,2-Dichloroethene	ND	5.0	
Benzene	ND	5.0		1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0		cis-1,3-Dichloropropene	ND	5.0	
Bromoform	ND	5.0		trans-1,3-Dichloropropene	ND	5.0	
Bromomethane	ND	10.0		Ethyl Benzene	ND	5.0	
Carbon Tetrachloride	ND	5.0		Methyl Ethyl Ketone	ND	5.0	
Chlorobenzene	ND	5.0		Methylene Chloride	ND	5.0	
Chloroethane	ND	10.0		Styrene	ND	5.0	
Chloroform	ND	5.0		1,1,2,2-Tetrachloroethane	ND	5.0	
Chloromethane	ND	10.0		Tetrachloroethene	ND	5.0	
Dibromochloromethane	ND	5.0		Toluene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0		1,1,1-Trichloroethane	ND	5.0	
1,3-Dichlorobenzene	ND	5.0		1,1,2-Trichloroethane	ND	5.0	
1,4-Dichlorobenzene	ND	5.0		Trichloroethene	ND	5.0	
1,1-Dichloroethane	ND	5.0		Trichlorofluoromethane	ND	5.0	
1,2-Dichloroethane	ND	5.0		Vinyl Chloride	ND	10.0	
1,1-Dichloroethene	ND	5.0		Xylenes	ND	5.0	

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/18/88

LAB. NO.: 3404-12

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 8-4-32

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,



J.G. Patel, M.S.
Environmental Chemist



Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/19/88

LAB. NO.: 3420-2

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B7-4-36

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	125	trans-1,2-Dichloroethene	ND	13
Benzene	ND	13	1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13	cis-1,3-Dichloropropene	ND	13
Bromoform	ND	13	trans-1,3-Dichloropropene	ND	13
Bromomethane	ND	25	Ethyl Benzene	ND	13
Carbon Tetrachloride	ND	13	Methyl Ethyl Ketone	ND	125
Chlorobenzene	ND	13	Methylene Chloride	ND	13
Chloroethane	ND	25	Styrene	ND	13
Chloroform	ND	13	1,1,2,2-Tetrachloroethane	ND	13
Chloromethane	ND	25	Tetrachloroethene	500	13
Dibromochloromethane	ND	13	Toluene	ND	13
1,2-Dichlorobenzene	ND	13	1,1,1-Trichloroethane	ND	13
1,3-Dichlorobenzene	ND	13	1,1,2-Trichloroethane	ND	13
1,4-Dichlorobenzene	ND	13	Trichloroethene	320	13
1,1-Dichloroethane	ND	13	Trichlorofluoromethane	ND	13
1,2-Dichloroethane	ND	13	Vinyl Chloride	ND	25
1,1-Dichloroethene	ND	13	Xylenes	ND	13

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

RECEIVED BY
WENCK ASSOCIATES INC.

MAY 31 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/19/88

LAB. NO.: 3420-1

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B6-1-36

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/23/88

LAB. NO.: 3420-4

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B6-4-38

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	125	trans-1,2-Dichloroethene	ND	13
Benzene	ND	13	1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13	cis-1,3-Dichloropropene	ND	13
Bromoform	ND	13	trans-1,3-Dichloropropene	ND	13
Bromomethane	ND	25	Ethyl Benzene	ND	13
Carbon Tetrachloride	ND	13	Methyl Ethyl Ketone	ND	125
Chlorobenzene	ND	13	Methylene Chloride	ND	13
Chloroethane	ND	25	Styrene	ND	13
Chloroform	ND	13	1,1,2,2-Tetrachloroethane	ND	13
Chloromethane	ND	25	Tetrachloroethene	1700	13
Dibromochloromethane	ND	13	Toluene	ND	13
1,2-Dichlorobenzene	ND	13	1,1,1-Trichloroethane	ND	13
1,3-Dichlorobenzene	ND	13	1,1,2-Trichloroethane	ND	13
1,4-Dichlorobenzene	ND	13	Trichloroethene	360	13
1,1-Dichloroethane	ND	13	Trichlorofluoromethane	ND	13
1,2-Dichloroethane	ND	13	Vinyl Chloride	ND	25
1,1-Dichloroethene	ND	13	Xylenes	ND	13

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/23/88

LAB. NO.: 3420-3

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B8-4-38

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
ug/kg	ug/kg	ug/kg	ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/24/88

LAB. NO.: 3420-5

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B3-2-40

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	8.6	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/25/88

DATE RECEIVED: 05/24/88

DATE SAMPLED: 05/24/88

LAB. NO.: 3420-6

DATE ANALYZED: 05/25/88

SAMPLE I.D.: Trench B Node B7-4-40

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	17	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	71	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

RECEIVED BY
WENCK ASSOCIATES INC.

FGL ENVIRONMENTAL
ANALYTICAL CHEMISTS

JUN 14 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/25/88

LAB. NO.: 3424-1

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 6-4-44

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	7.8	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/25/88

LAB. NO.: 3424-2

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 2-3-44

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel

Eric Lu, Ph.D.
Environmental Chemist

FGI ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/25/88

LAB. NO.: 3424-3

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 6-4-48

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	6.6	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/25/88

LAB. NO.: 3424-4

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 9-2-48

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit		
	ug/kg		ug/kg		
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/26/88

LAB. NO.: 3424-7

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 7-3-52 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	ug/kg	Detection Limit	Compound	ug/kg	ug/kg	Detection Limit
Acetone	ND	50.0		trans-1,2-Dichloroethene	ND	5.0	
Benzene	ND	5.0		1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0		cis-1,3-Dichloropropene	ND	5.0	
Bromoform	ND	5.0		trans-1,3-Dichloropropene	ND	5.0	
Bromomethane	ND	10.0		Ethyl Benzene	ND	5.0	
Carbon Tetrachloride	ND	5.0		Methyl Ethyl Ketone	ND	50.0	
Chlorobenzene	ND	5.0		Methylene Chloride	ND	5.0	
Chloroethane	ND	10.0		Styrene	ND	5.0	
Chloroform	ND	5.0		1,1,2,2-Tetrachloroethane	ND	5.0	
Chloromethane	ND	10.0		Tetrachloroethene	ND	5.0	
Dibromochloromethane	ND	5.0		Toluene	5.5	5.0	
1,2-Dichlorobenzene	ND	5.0		1,1,1-Trichloroethane	ND	5.0	
1,3-Dichlorobenzene	ND	5.0		1,1,2-Trichloroethane	ND	5.0	
1,4-Dichlorobenzene	ND	5.0		Trichloroethene	ND	5.0	
1,1-Dichloroethane	ND	5.0		Trichlorofluoromethane	ND	5.0	
1,2-Dichloroethane	ND	5.0		Vinyl Chloride	ND	10.0	
1,1-Dichloroethene	ND	5.0		Xylenes	ND	5.0	

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/26/88

LAB. NO.: 3424-6

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 6-3-52

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Detection Limit ug/kg	Compound	Detection Limit ug/kg	Detection Limit ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	10	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	22	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/06/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/26/88

LAB. NO.: 3424-5

DATE ANALYZED: 06/01/88

SAMPLE I.D.: 317 Area Trench B/WB Node 7-3-52

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	8.0	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 05/28/88

LAB. NO.: 3437-2

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 8-2-56

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	12	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

RECEIVED BY
WENCK ASSOCIATES INC.

ANALYTICAL CHEMISTS

JUN 14 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 05/28/88

LAB. NO.: 3437-1

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 7-1-56

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 06/01/88

LAB. NO.: 3437-3

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 7-4-60

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	125	trans-1,2-Dichloroethene	ND	13
Benzene	ND	13	1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13	cis-1,3-Dichloropropene	ND	13
Bromoform	ND	13	trans-1,3-Dichloropropene	ND	13
Bromomethane	ND	25	Ethyl Benzene	ND	13
Carbon Tetrachloride	ND	13	Methyl Ethyl Ketone	ND	125
Chlorobenzene	ND	13	Methylene Chloride	ND	13
Chloroethane	ND	25	Styrene	25	13
Chloroform	ND	13	1,1,2,2-Tetrachloroethane	ND	13
Chloromethane	ND	25	Tetrachloroethene	740	13
Dibromochloromethane	ND	13	Toluene	ND	13
1,2-Dichlorobenzene	ND	13	1,1,1-Trichloroethane	ND	13
1,3-Dichlorobenzene	ND	13	1,1,2-Trichloroethane	ND	13
1,4-Dichlorobenzene	ND	13	Trichloroethene	170	13
1,1-Dichloroethane	ND	13	Trichlorofluoromethane	ND	13
1,2-Dichloroethane	ND	13	Vinyl Chloride	ND	25
1,1-Dichloroethene	ND	13	Xylenes	ND	13

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 06/01/88

LAB. NO.: 3437-4

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 8-1-60

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 06/02/88

LAB. NO.: 3437-5

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 3-1-60

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
	ug/kg		ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 06/02/88

DATE SAMPLED: 06/02/88

LAB. NO.: 3437-6

DATE ANALYZED: 06/03/88

SAMPLE I.D.: 317 Area Trench B/C WB 4-1-60

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/06/88

LAB. NO.: 2883-1

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-3-3-1 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel

Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/16/88

LAB. NO.: 3404-9

DATE ANALYZED: 05/20/88

SAMPLE I.D.: B-8-4-28 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	18	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

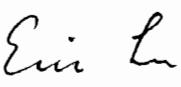
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel


Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/26/88

LAB. NO.: 3424-6

DATE ANALYZED: 06/01/88

SAMPLE I.D.: Node 6-3-52 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	8	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	27	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/09/88

LAB. NO.: 2883-6

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-4-1-8 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Percent Recovery	Compound	Percent Recovery
Acetone	124	trans-1,2-Dichloroethene	102
Benzene	143	1,2-Dichloropropane	129
Bromodichloromethane	158	cis-1,3-Dichloropropene	139
Bromoform	181	trans-1,3-Dichloropropene	133
Bromomethane	75	Ethyl Benzene	109
Carbon Tetrachloride	170	Methyl Ethyl Ketone	122
Chlorobenzene	111	Methylene Chloride	117
Chloroethane	88	1,1,2,2-Tetrachloroethane	122
Chloroform	157	Tetrachloroethene	121
Chloromethane	78	Toluene	106
Dibromochloromethane	152	1,1,1-Trichloroethane	153
1,2-Dichlorobenzene	142	1,1,2-Trichloroethane	134
1,3-Dichlorobenzene	153	Trichloroethene	125
1,4-Dichlorobenzene	140	Trichlorofluoromethane	110
1,1-Dichloroethane	138	Vinyl Chloride	89
1,2-Dichloroethane	189	Xylenes	116
1,1-Dichloroethene	88		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/10/88

LAB. NO.: 3404-1

DATE ANALYZED: 05/20/88

SAMPLE I.D.: B-5-1-16 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Percent Recovery</u>	<u>Compound</u>	<u>Percent Recovery</u>
Acetone	107	trans-1,2-Dichloroethene	75
Benzene	130	1,2-Dichloropropane	111
Bromodichloromethane	115	cis-1,3-Dichloropropene	124
Bromoform	159	trans-1,3-Dichloropropene	119
Bromomethane	65	Ethyl Benzene	91
Carbon Tetrachloride	105	Methyl Ethyl Ketone	100
Chlorobenzene	104	Methylene Chloride	86
Chloroethane	69	1,1,2,2-Tetrachloroethane	132
Chloroform	96	Tetrachloroethene	102
Chloromethane	74	Toluene	108
Dibromochloromethane	133	1,1,1-Trichloroethane	93
1,2-Dichlorobenzene	118	1,1,2-Trichloroethane	126
1,3-Dichlorobenzene	108	Trichloroethene	112
1,4-Dichlorobenzene	99	Trichlorofluoromethane	65
1,1-Dichloroethane	86	Vinyl Chloride	69
1,2-Dichloroethane	100	Xylenes	95
1,1-Dichloroethene	66		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/27/88

DATE SAMPLED: 05/26/88

LAB. NO.: 3424-5

DATE ANALYZED: 06/01/88

SAMPLE I.D.: Node 7-3-52 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Percent Recovery</u>	<u>Compound</u>	<u>Percent Recovery</u>
Acetone	76	trans-1,2-Dichloroethene	83
Benzene	143	1,2-Dichloropropane	127
Bromodichloromethane	117	cis-1,3-Dichloropropene	122
Bromoform	117	trans-1,3-Dichloropropene	119
Bromomethane	63	Ethyl Benzene	95
Carbon Tetrachloride	106	Methyl Ethyl Ketone	136
Chlorobenzene	107	Methylene Chloride	95
Chloroethane	77	1,1,2,2-Tetrachloroethane	120
Chloroform	110	Tetrachloroethene	102
Chloromethane	77	Toluene	117
Dibromochloromethane	111	1,1,1-Trichloroethane	99
1,2-Dichlorobenzene	107	1,1,2-Trichloroethane	114
1,3-Dichlorobenzene	100	Trichloroethene	112
1,4-Dichlorobenzene	92	Trichlorofluoromethane	69
1,1-Dichloroethane	107	Vinyl Chloride	71
1,2-Dichloroethane	113	Xylenes	97
1,1-Dichloroethene	74		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

TRENCH C

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

LAB. NO.: 1735-2

SAMPLE I.D.: Node C-4-2-5 Lift/Low

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/22/88

DATE SAMPLED: 04/21/88 &
04/22/88

DATE ANALYZED: 04/27/88

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	240	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

RECEIVED BY
WENCK ASSOCIATES INC.

ANALYTICAL CHEMISTS

MAY 6 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/22/88

DATE SAMPLED: 04/21/88 &
04/22/88

LAB. NO.: 1735-1

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node C-4-1-4 Lift/Low

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	29	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

LAB. NO.: 1735-3

SAMPLE I.D.: Node C-4-2-6 Lift/Low

DATE REPORTED: 05/05/88
DATE RECEIVED: 04/22/88
DATE SAMPLED: 04/21/88 &
04/22/88
DATE ANALYZED: 04/27/88

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	85	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

LAB. NO.: 1735-4

SAMPLE I.D.: Node C-5-2-7 Lift/Low

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/22/88

DATE SAMPLED: 04/21/88 &
04/22/88

DATE ANALYZED: 04/27/88

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Detection Limit</u>	<u>ug/kg</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>ug/kg</u>
		ug/kg			ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/22/88

DATE SAMPLED: 04/21/88 &
04/22/88

LAB. NO.: 1735-5

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node C-5-2-8 Lift/Low

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>ug/kg</u>	<u>Detection Limit</u> <u>ug/kg</u>	<u>Compound</u>	<u>ug/kg</u>	<u>Detection Limit</u> <u>ug/kg</u>
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/22/88

LAB. NO.: 1743-1

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-2-6A

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	130	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

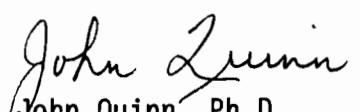
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/22/88

LAB. NO.: 1743-4

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-9

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit		
ug/kg	ug/kg	ug/kg	ug/kg		
Acetone	ND	1300	trans-1,2-Dichloroethene	ND	1300
Benzene	ND	1300	1,2-Dichloropropane	ND	1300
Bromodichloromethane	ND	1300	cis-1,3-Dichloropropene	ND	1300
Bromoform	ND	1300	trans-1,3-Dichloropropene	ND	1300
Bromomethane	ND	2500	Ethyl Benzene	ND	1300
Carbon Tetrachloride	ND	1300	Methyl Ethyl Ketone	ND	1300
Chlorobenzene	ND	1300	Methylene Chloride	ND	1300
Chloroethane	ND	2500	Styrene	ND	1300
Chloroform	ND	1300	1,1,2,2-Tetrachloroethane	ND	1300
Chloromethane	ND	2500	Tetrachloroethene	30,000	1300
Dibromochloromethane	ND	1300	Toluene	ND	1300
1,2-Dichlorobenzene	ND	1300	1,1,1-Trichloroethane	ND	1300
1,3-Dichlorobenzene	ND	1300	1,1,2-Trichloroethane	ND	1300
1,4-Dichlorobenzene	ND	1300	Trichloroethene	ND	1300
1,1-Dichloroethane	ND	1300	Trichlorofluoromethane	ND	1300
1,2-Dichloroethane	ND	1300	Vinyl Chloride	ND	2500
1,1-Dichloroethene	ND	1300	Xylenes	ND	1300

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/24/88

LAB. NO.: 1743-5

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-10

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	170	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/24/88

LAB. NO.: 1743-6

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-11

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Detection Limit ug/kg	Compound	Detection Limit ug/kg	Detection Limit ug/kg
Acetone	ND	1300	trans-1,2-Dichloroethene	ND	1300
Benzene	ND	1300	1,2-Dichloropropane	ND	1300
Bromodichloromethane	ND	1300	cis-1,3-Dichloropropene	ND	1300
Bromoform	ND	1300	trans-1,3-Dichloropropene	ND	1300
Bromomethane	ND	2500	Ethyl Benzene	ND	1300
Carbon Tetrachloride	ND	1300	Methyl Ethyl Ketone	ND	1300
Chlorobenzene	ND	1300	Methylene Chloride	ND	1300
Chloroethane	ND	2500	Styrene	ND	1300
Chloroform	ND	1300	1,1,2,2-Tetrachloroethane	ND	1300
Chloromethane	ND	2500	Tetrachloroethene	8,500	1300
Dibromochloromethane	ND	1300	Toluene	ND	1300
1,2-Dichlorobenzene	ND	1300	1,1,1-Trichloroethane	ND	1300
1,3-Dichlorobenzene	ND	1300	1,1,2-Trichloroethane	ND	1300
1,4-Dichlorobenzene	ND	1300	Trichloroethene	ND	1300
1,1-Dichloroethane	ND	1300	Trichlorofluoromethane	ND	1300
1,2-Dichloroethane	ND	1300	Vinyl Chloride	ND	2500
1,1-Dichloroethene	ND	1300	Xylenes	ND	1300

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel

J.G. Patel, M.S.
Environmental Chemist

John Quinn

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/24/88

LAB. NO.: 1743-7

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 9-1-12

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

for John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/24/88

LAB. NO.: 1743-8

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-13

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/24/88

LAB. NO.: 1743-9

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-2-14

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	1300	trans-1,2-Dichloroethene	ND	1300
Benzene	ND	1300	1,2-Dichloropropane	ND	1300
Bromodichloromethane	ND	1300	cis-1,3-Dichloropropene	ND	1300
Bromoform	ND	1300	trans-1,3-Dichloropropene	ND	1300
Bromomethane	ND	2500	Ethyl Benzene	ND	1300
Carbon Tetrachloride	ND	1300	Methyl Ethyl Ketone	ND	1300
Chlorobenzene	ND	1300	Methylene Chloride	ND	1300
Chloroethane	ND	2500	Styrene	ND	1300
Chloroform	ND	1300	1,1,2,2-Tetrachloroethane	ND	1300
Chloromethane	ND	2500	Tetrachloroethene	115,000	1300
Dibromochloromethane	ND	1300	Toluene	ND	1300
1,2-Dichlorobenzene	ND	1300	1,1,1-Trichloroethane	ND	1300
1,3-Dichlorobenzene	ND	1300	1,1,2-Trichloroethane	ND	1300
1,4-Dichlorobenzene	ND	1300	Trichloroethene	ND	1300
1,1-Dichloroethane	ND	1300	Trichlorofluoromethane	ND	1300
1,2-Dichloroethane	ND	1300	Vinyl Chloride	ND	2500
1,1-Dichloroethene	ND	1300	Xylenes	ND	1300

ug/kg = ppb

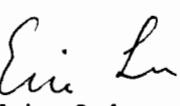
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-10

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-15

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Detection Limit	
	ug/kg	ug/kg	Compound	ug/kg
Acetone	ND	130	trans-1,2-Dichloroethene	ND 130
Benzene	ND	130	1,2-Dichloropropane	ND 130
Bromodichloromethane	ND	130	cis-1,3-Dichloropropene	ND 130
Bromoform	ND	130	trans-1,3-Dichloropropene	ND 130
Bromomethane	ND	250	Ethyl Benzene	ND 130
Carbon Tetrachloride	ND	130	Methyl Ethyl Ketone	ND 130
Chlorobenzene	ND	130	Methylene Chloride	ND 130
Chloroethane	ND	250	Styrene	ND 130
Chloroform	ND	130	1,1,2,2-Tetrachloroethane	ND 130
Chloromethane	ND	250	Tetrachloroethene	325 130
Dibromochloromethane	ND	130	Toluene	ND 130
1,2-Dichlorobenzene	ND	130	1,1,1-Trichloroethane	ND 130
1,3-Dichlorobenzene	ND	130	1,1,2-Trichloroethane	ND 130
1,4-Dichlorobenzene	ND	130	Trichloroethene	ND 130
1,1-Dichloroethane	ND	130	Trichlorofluoromethane	ND 130
1,2-Dichloroethane	ND	130	Vinyl Chloride	ND 250
1,1-Dichloroethene	ND	130	Xylenes	ND 130

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-11

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 9-1-16

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
	ug/kg			ug/kg	
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G.Patel

J.G. Patel, M.S.
Environmental Chemist

John Quinn

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-12

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-17

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	2,500
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel

J.G. Patel, M.S.
Environmental Chemist

John Quinn

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-13

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-18

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	1800
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-14

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-19

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
ug/kg	ug/kg	ug/kg	ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	71,000
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/26/88

LAB. NO.: 1743-15

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 6-1-20

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

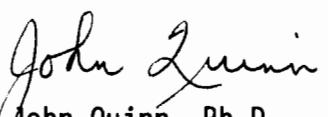
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/26/88

LAB. NO.: 1743-16

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-21

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
	ug/kg		ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	3500
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/26/88

LAB. NO.: 1743-17

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-3-22

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND 1300
Benzene	ND	1,2-Dichloropropane	ND 1300
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND 1300
Bromoform	ND	trans-1,3-Dichloropropene	ND 1300
Bromomethane	ND	Ethyl Benzene	ND 1300
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND 1300
Chlorobenzene	ND	Methylene Chloride	ND 1300
Chloroethane	ND	Styrene	ND 1300
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND 1300
Chloromethane	ND	Tetrachloroethene	1,300 1300
Dibromochloromethane	ND	Toluene	ND 1300
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND 1300
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND 1300
1,4-Dichlorobenzene	ND	Trichloroethene	ND 1300
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND 1300
1,2-Dichloroethane	ND	Vinyl Chloride	ND 2500
1,1-Dichloroethene	ND	Xylenes	ND 1300

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

RECEIVED BY
WENCK ASSOCIATES INC.

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

JUN - 6 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/26/88

LAB. NO.: 2852-1

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-23

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	ND	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	240	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	2	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

for John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/27/88

LAB. NO.: 2852-2

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-6-1-24

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	ug/kg	Detection Limit	Compound	ug/kg	ug/kg	Detection Limit
Acetone	ND	5.0		trans-1,2-Dichloroethene	ND	5.0	
Benzene	ND	5.0		1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0		cis-1,3-Dichloropropene	ND	5.0	
Bromoform	ND	5.0		trans-1,3-Dichloropropene	ND	5.0	
Bromomethane	ND	10.0		Ethyl Benzene	ND	5.0	
Carbon Tetrachloride	ND	5.0		Methyl Ethyl Ketone	ND	5.0	
Chlorobenzene	ND	5.0		Methylene Chloride	ND	5.0	
Chloroethane	ND	10.0		Styrene	ND	5.0	
Chloroform	ND	5.0		1,1,2,2-Tetrachloroethane	ND	5.0	
Chloromethane	ND	10.0		Tetrachloroethene	ND	5.0	
Dibromochloromethane	ND	5.0		Toluene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0		1,1,1-Trichloroethane	ND	5.0	
1,3-Dichlorobenzene	ND	5.0		1,1,2-Trichloroethane	ND	5.0	
1,4-Dichlorobenzene	ND	5.0		Trichloroethene	ND	5.0	
1,1-Dichloroethane	ND	5.0		Trichlorofluoromethane	ND	5.0	
1,2-Dichloroethane	ND	5.0		Vinyl Chloride	ND	10.0	
1,1-Dichloroethene	ND	5.0		Xylenes	ND	5.0	

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


for John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/27/88

LAB. NO.: 2852-3

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-25

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	ND	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	30	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	ND	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	2.6	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/27/88

LAB. NO.: 2852-4

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-26

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	Detection Limit		<u>Compound</u>	Detection Limit	
	<u>mg/kg</u>	<u>mg/kg</u>		<u>mg/kg</u>	<u>mg/kg</u>
Acetone	9.6	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	3.8	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	400	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	5.4	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist


for
John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/27/88

LAB. NO.: 2852-5

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-27

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	12.6	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	2.4	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	400	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	5.8	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

for John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/28/88

LAB. NO.: 2852-6

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-6-1-28

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit		
ug/kg	ug/kg	ug/kg	ug/kg		
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

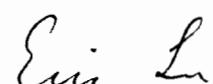
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/28/88

LAB. NO.: 2852-7

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-29

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	2.4	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	200	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	2.8	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

for

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/28/88

LAB. NO.: 2852-8

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-30

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	mg/kg	mg/kg	Detection Limit	Compound	mg/kg	mg/kg	Detection Limit
Acetone	17.9	1.3		trans-1,2-Dichloroethene	ND	1.3	
Benzene	ND	1.3		1,2-Dichloropropane	ND	1.3	
Bromodichloromethane	ND	1.3		cis-1,3-Dichloropropene	ND	1.3	
Bromoform	ND	1.3		trans-1,3-Dichloropropene	ND	1.3	
Bromomethane	ND	2.5		Ethyl Benzene	ND	1.3	
Carbon Tetrachloride	ND	1.3		Methyl Ethyl Ketone	ND	1.3	
Chlorobenzene	ND	1.3		Methylene Chloride	ND	1.3	
Chloroethane	ND	2.5		Styrene	ND	1.3	
Chloroform	2.3	1.3		1,1,2,2-Tetrachloroethane	ND	1.3	
Chloromethane	ND	2.5		Tetrachloroethene	350	1.3	
Dibromochloromethane	ND	1.3		Toluene	ND	1.3	
1,2-Dichlorobenzene	ND	1.3		1,1,1-Trichloroethane	ND	1.3	
1,3-Dichlorobenzene	ND	1.3		1,1,2-Trichloroethane	ND	1.3	
1,4-Dichlorobenzene	ND	1.3		Trichloroethene	13.7	1.3	
1,1-Dichloroethane	ND	1.3		Trichlorofluoromethane	ND	1.3	
1,2-Dichloroethane	ND	1.3		Vinyl Chloride	ND	2.5	
1,1-Dichloroethene	ND	1.3		Xylenes	ND	1.3	

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel
J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

for

Eric L
Eric L
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/09/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/28/88

LAB. NO.: 2852-9

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-4-3-31

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit mg/kg	Detection Limit mg/kg	Compound	Detection Limit mg/kg	Detection Limit mg/kg
Acetone	5.6	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	ND	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	ND	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	800	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	1.6	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	60	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


for
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/05/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/29/88

LAB. NO.: 2852-10

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-7-1-32

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 04/29/88

LAB. NO.: 2875-1

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #33, Node C-4-3-33

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	2.0	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	2.4	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	ND	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	60	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	ND	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 04/29/88

LAB. NO.: 2875-2

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #34, Node C-4-3-34

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	mg/kg	mg/kg	Detection Limit	Compound	mg/kg	mg/kg	Detection Limit
Acetone	6.8	1.3		trans-1,2-Dichloroethene	ND	1.3	
Benzene	ND	1.3		1,2-Dichloropropane	ND	1.3	
Bromodichloromethane	ND	1.3		cis-1,3-Dichloropropene	ND	1.3	
Bromoform	ND	1.3		trans-1,3-Dichloropropene	ND	1.3	
Bromomethane	ND	2.5		Ethyl Benzene	ND	1.3	
Carbon Tetrachloride	ND	1.3		Methyl Ethyl Ketone	1.8	1.3	
Chlorobenzene	ND	1.3		Methylene Chloride	ND	1.3	
Chloroethane	ND	2.5		Styrene	ND	1.3	
Chloroform	ND	1.3		1,1,2,2-Tetrachloroethane	ND	1.3	
Chloromethane	ND	2.5		Tetrachloroethene	200	1.3	
Dibromochloromethane	ND	1.3		Toluene	ND	1.3	
1,2-Dichlorobenzene	ND	1.3		1,1,1-Trichloroethane	ND	1.3	
1,3-Dichlorobenzene	ND	1.3		1,1,2-Trichloroethane	ND	1.3	
1,4-Dichlorobenzene	ND	1.3		Trichloroethene	3.5	1.3	
1,1-Dichloroethane	ND	1.3		Trichlorofluoromethane	ND	1.3	
1,2-Dichloroethane	ND	1.3		Vinyl Chloride	ND	2.5	
1,1-Dichloroethene	ND	1.3		Xylenes	ND	1.3	

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

JG Patel

J.G. Patel, M.S.

John Quinn

John Quinn, Ph.D.

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 04/30/88

LAB. NO.: 2875-5

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #37, Node C-4-3-37

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	mg/kg	mg/kg	Detection Limit	Compound	mg/kg	mg/kg	Detection Limit
Acetone	ND	1.3		trans-1,2-Dichloroethene	ND	1.3	
Benzene	ND	1.3		1,2-Dichloropropane	ND	1.3	
Bromodichloromethane	ND	1.3		cis-1,3-Dichloropropene	ND	1.3	
Bromoform	ND	1.3		trans-1,3-Dichloropropene	ND	1.3	
Bromomethane	ND	2.5		Ethyl Benzene	ND	1.3	
Carbon Tetrachloride	ND	1.3		Methyl Ethyl Ketone	ND	1.3	
Chlorobenzene	ND	1.3		Methylene Chloride	ND	1.3	
Chloroethane	ND	2.5		Styrene	ND	1.3	
Chloroform	ND	1.3		1,1,2,2-Tetrachloroethane	ND	1.3	
Chloromethane	ND	2.5		Tetrachloroethene	5.9	1.3	
Dibromochloromethane	ND	1.3		Toluene	ND	1.3	
1,2-Dichlorobenzene	ND	1.3		1,1,1-Trichloroethane	ND	1.3	
1,3-Dichlorobenzene	ND	1.3		1,1,2-Trichloroethane	ND	1.3	
1,4-Dichlorobenzene	ND	1.3		Trichloroethene	ND	1.3	
1,1-Dichloroethane	ND	1.3		Trichlorofluoromethane	ND	1.3	
1,2-Dichloroethane	ND	1.3		Vinyl Chloride	ND	2.5	
1,1-Dichloroethene	ND	1.3		Xylenes	ND	1.3	

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 04/30/88

LAB. NO.: 2875-6

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #37, Node C-5-3-37

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	640	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	68	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	10	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	18	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/02/88

LAB. NO.: 2875-7

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #41, Node C-4-3-41

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit mg/kg	Compound	Detection Limit mg/kg
Acetone	2.0	trans-1,2-Dichloroethene	ND 1.3
Benzene	ND	1,2-Dichloropropane	ND 1.3
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND 1.3
Bromoform	ND	trans-1,3-Dichloropropene	ND 1.3
Bromomethane	ND	Ethyl Benzene	ND 1.3
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	3.9 1.3
Chlorobenzene	ND	Methylene Chloride	ND 1.3
Chloroethane	ND	Styrene	ND 1.3
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND 1.3
Chloromethane	ND	Tetrachloroethene	170 1.3
Dibromochloromethane	ND	Toluene	ND 1.3
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND 1.3
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND 1.3
1,4-Dichlorobenzene	ND	Trichloroethene	6.8 1.3
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND 1.3
1,2-Dichloroethane	ND	Vinyl Chloride	ND 2.5
1,1-Dichloroethene	ND	Xylenes	ND 1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/02/88

LAB. NO.: 2875-8

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #41, Node C-7-1-41

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	270	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	49	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	11	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	18	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/03/88

LAB. NO.: 2875-9

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #45, Node C-4-3-45

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit mg/kg	Compound	Detection Limit mg/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	4.2
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	6.7
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/03/88

LAB. NO.: 2875-10

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #45, Node C-6-2-45

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND 5.0	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND 5.0	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND 5.0	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND 5.0	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND 10.0	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND 5.0	Methyl Ethyl Ketone	320 5.0
Chlorobenzene	ND 5.0	Methylene Chloride	ND 5.0
Chloroethane	ND 10.0	Styrene	ND 5.0
Chloroform	ND 5.0	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND 10.0	Tetrachloroethene	96 5.0
Dibromochloromethane	ND 5.0	Toluene	ND 5.0
1,2-Dichlorobenzene	ND 5.0	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND 5.0	Trichloroethene	5.2 5.0
1,1-Dichloroethane	ND 5.0	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND 5.0	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND 5.0	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/11/88

DATE SAMPLED: 05/10/88

LAB. NO.: 2883-8

DATE ANALYZED: 05/12/88

SAMPLE I.D.: B-6-1-13

REPORT OF ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
	ug/kg		ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

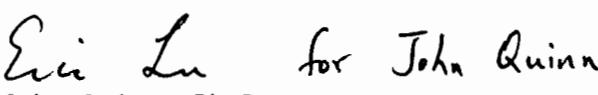
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel


Eric Lu for John Quinn
John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL
ANALYTICAL CHEMISTS

MAY 21 1988

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/10/88

LAB. NO.: 3404-1

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 5-1-16

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	8.5	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	90	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental ChemistEric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/10/88

LAB. NO.: 3404-2

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 9-1-16

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/12/88

LAB. NO.: 3404-3

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 8-4-20

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit		
ug/kg	ug/kg	ug/kg	ug/kg		
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	6.1	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

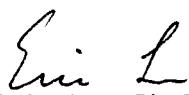
* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel


Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/12/88

LAB. NO.: 3404-4

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 5-3-20

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND 50.0
Chlorobenzene	ND	Methylene Chloride	ND 5.0
Chloroethane	ND	Styrene	ND 5.0
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND	Tetrachloroethene	ND 5.0
Dibromochloromethane	ND	Toluene	ND 5.0
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel


Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/14/88

LAB. NO.: 3404-5

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 9-4-24

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,


J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel


Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/14/88

LAB. NO.: 3404-6

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 2-2-24

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	ND
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/14/88

LAB. NO.: 3404-7

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 2-2-24 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGI ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/16/88

LAB. NO.: 3404-8

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 8-4-28

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	Detection Limit	Compound	ug/kg	Detection Limit
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/16/88

LAB. NO.: 3404-9

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 8-4-28 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	17.0	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGI ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/16/88

LAB. NO.: 3404-10

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 3-2-28

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND 50.0	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND 5.0	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND 5.0	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND 5.0	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND 10.0	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND 5.0	Methyl Ethyl Ketone	ND 50.0
Chlorobenzene	ND 5.0	Methylene Chloride	ND 5.0
Chloroethane	ND 10.0	Styrene	ND 5.0
Chloroform	ND 5.0	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND 10.0	Tetrachloroethene	ND 5.0
Dibromochloromethane	ND 5.0	Toluene	ND 5.0
1,2-Dichlorobenzene	ND 5.0	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND 5.0	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND 5.0	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND 5.0	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND 5.0	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/24/88

DATE RECEIVED: 05/18/88

DATE SAMPLED: 05/18/88

LAB. NO.: 3404-11

DATE ANALYZED: 05/20/88

SAMPLE I.D.: Node 4-2-32

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit
ug/kg	ug/kg	ug/kg	ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	ND
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	50
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-11

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #49, Node C-4-3-49

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND	trans-1,2-Dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND	Ethyl Benzene	ND
Carbon Tetrachloride	ND	Methyl Ethyl Ketone	8
Chlorobenzene	ND	Methylene Chloride	ND
Chloroethane	ND	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	Tetrachloroethene	11
Dibromochloromethane	ND	Toluene	ND
1,2-Dichlorobenzene	ND	1,1,1-Trichloroethane	ND
1,3-Dichlorobenzene	ND	1,1,2-Trichloroethane	ND
1,4-Dichlorobenzene	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Trichlorofluoromethane	ND
1,2-Dichloroethane	ND	Vinyl Chloride	ND
1,1-Dichloroethene	ND	Xylenes	ND

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-12

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #49, Node C-6-1-49

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	10.3	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND 5.0	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND 5.0	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND 5.0	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND 10.0	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND 5.0	Methyl Ethyl Ketone	340 5.0
Chlorobenzene	ND 5.0	Methylene Chloride	ND 5.0
Chloroethane	ND 10.0	Styrene	ND 5.0
Chloroform	ND 5.0	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND 10.0	Tetrachloroethene	ND 5.0
Dibromochloromethane	ND 5.0	Toluene	ND 5.0
1,2-Dichlorobenzene	ND 5.0	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND 5.0	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND 5.0	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND 5.0	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND 5.0	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-17

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #49, Duplicate Node C-6-1-49

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Detection Limit</u> <u>ug/kg</u>	<u>ug/kg</u>	<u>Compound</u>	<u>Detection Limit</u> <u>ug/kg</u>	<u>ug/kg</u>
Acetone	8.0	5.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	890	5.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G.Patel

J.G. Patel, M.S.
Environmental Chemist

John Quinn

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-13

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #53, Node C-9-2-53

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	13.6	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND 5.0	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND 5.0	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND 5.0	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND 10.0	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND 5.0	Methyl Ethyl Ketone	10.5 5.0
Chlorobenzene	ND 5.0	Methylene Chloride	ND 5.0
Chloroethane	ND 10.0	Styrene	ND 5.0
Chloroform	ND 5.0	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND 10.0	Tetrachloroethene	ND 5.0
Dibromochloromethane	ND 5.0	Toluene	ND 5.0
1,2-Dichlorobenzene	ND 5.0	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND 5.0	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND 5.0	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND 5.0	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND 5.0	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-14

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #53, Node C-3-2-53

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	125	trans-1,2-Dichloroethene	ND	125
Benzene	ND	125	1,2-Dichloropropane	ND	125
Bromodichloromethane	ND	125	cis-1,3-Dichloropropene	ND	125
Bromoform	ND	125	trans-1,3-Dichloropropene	ND	125
Bromomethane	ND	250	Ethyl Benzene	ND	125
Carbon Tetrachloride	ND	125	Methyl Ethyl Ketone	6,800	125
Chlorobenzene	ND	125	Methylene Chloride	640	125
Chloroethane	ND	250	Styrene	ND	125
Chloroform	ND	125	1,1,2,2-Tetrachloroethane	ND	125
Chloromethane	ND	250	Tetrachloroethene	19,000	125
Dibromochloromethane	ND	125	Toluene	ND	125
1,2-Dichlorobenzene	ND	125	1,1,1-Trichloroethane	ND	125
1,3-Dichlorobenzene	ND	125	1,1,2-Trichloroethane	ND	125
1,4-Dichlorobenzene	ND	125	Trichloroethene	150	125
1,1-Dichloroethane	ND	125	Trichlorofluoromethane	ND	125
1,2-Dichloroethane	ND	125	Vinyl Chloride	ND	250
1,1-Dichloroethene	ND	125	Xylenes	ND	125

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/05/88

LAB. NO.: 2875-15

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #57, Node C-8-2-57

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	ug/kg	ug/kg	Detection Limit	Compound	ug/kg	ug/kg	Detection Limit
Acetone	7.2	5.0		trans-1,2-Dichloroethene	ND	5.0	
Benzene	ND	5.0		1,2-Dichloropropane	ND	5.0	
Bromodichloromethane	ND	5.0		cis-1,3-Dichloropropene	ND	5.0	
Bromoform	ND	5.0		trans-1,3-Dichloropropene	ND	5.0	
Bromomethane	ND	10.0		Ethyl Benzene	ND	5.0	
Carbon Tetrachloride	ND	5.0		Methyl Ethyl Ketone	350	5.0	
Chlorobenzene	ND	5.0		Methylene Chloride	ND	5.0	
Chloroethane	ND	10.0		Styrene	ND	5.0	
Chloroform	ND	5.0		1,1,2,2-Tetrachloroethane	ND	5.0	
Chloromethane	ND	10.0		Tetrachloroethene	ND	5.0	
Dibromochloromethane	ND	5.0		Toluene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0		1,1,1-Trichloroethane	ND	5.0	
1,3-Dichlorobenzene	ND	5.0		1,1,2-Trichloroethane	ND	5.0	
1,4-Dichlorobenzene	ND	5.0		Trichloroethene	ND	5.0	
1,1-Dichloroethane	ND	5.0		Trichlorofluoromethane	ND	5.0	
1,2-Dichloroethane	ND	5.0		Vinyl Chloride	ND	10.0	
1,1-Dichloroethene	ND	5.0		Xylenes	ND	5.0	

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/JQ:mel

John Quinn, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 05/13/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/05/88

LAB. NO.: 2875-16

DATE ANALYZED: 05/07/88

SAMPLE I.D.: Station #57, Node C-3-2-57

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	mg/kg	mg/kg		mg/kg	mg/kg
Acetone	ND	1.3	trans-1,2-Dichloroethene	ND	1.3
Benzene	ND	1.3	1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3	cis-1,3-Dichloropropene	ND	1.3
Bromoform	ND	1.3	trans-1,3-Dichloropropene	ND	1.3
Bromomethane	ND	2.5	Ethyl Benzene	ND	1.3
Carbon Tetrachloride	ND	1.3	Methyl Ethyl Ketone	1.6	1.3
Chlorobenzene	ND	1.3	Methylene Chloride	ND	1.3
Chloroethane	ND	2.5	Styrene	ND	1.3
Chloroform	7.0	1.3	1,1,2,2-Tetrachloroethane	ND	1.3
Chloromethane	ND	2.5	Tetrachloroethene	630	1.3
Dibromochloromethane	ND	1.3	Toluene	ND	1.3
1,2-Dichlorobenzene	ND	1.3	1,1,1-Trichloroethane	12.0	1.3
1,3-Dichlorobenzene	ND	1.3	1,1,2-Trichloroethane	ND	1.3
1,4-Dichlorobenzene	ND	1.3	Trichloroethene	10.4	1.3
1,1-Dichloroethane	ND	1.3	Trichlorofluoromethane	ND	1.3
1,2-Dichloroethane	ND	1.3	Vinyl Chloride	ND	2.5
1,1-Dichloroethene	ND	1.3	Xylenes	ND	1.3

mg/kg = ppm

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

John Quinn, Ph.D.
Environmental Chemist

JP/JQ:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/21/88

DATE SAMPLED: 04/22/88

LAB. NO.: 1735-3

DATE ANALYZED: 04/27/88

SAMPLE I.D.: Node 4-2-6 Lift Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	60	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-14

DATE ANALYZED: 04/28/88

SAMPLE I.D.: C-4-3-19 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit ug/kg	Compound	Detection Limit ug/kg
Acetone	ND 50.0	trans-1,2-Dichloroethene	ND 5.0
Benzene	ND 5.0	1,2-Dichloropropane	ND 5.0
Bromodichloromethane	ND 5.0	cis-1,3-Dichloropropene	ND 5.0
Bromoform	ND 5.0	trans-1,3-Dichloropropene	ND 5.0
Bromomethane	ND 10.0	Ethyl Benzene	ND 5.0
Carbon Tetrachloride	ND 5.0	Methyl Ethyl Ketone	ND 50.0
Chlorobenzene	ND 5.0	Methylene Chloride	ND 5.0
Chloroethane	ND 10.0	Styrene	ND 5.0
Chloroform	ND 5.0	1,1,2,2-Tetrachloroethane	ND 5.0
Chloromethane	ND 10.0	Tetrachloroethene	11 5.0
Dibromochloromethane	ND 5.0	Toluene	ND 5.0
1,2-Dichlorobenzene	ND 5.0	1,1,1-Trichloroethane	ND 5.0
1,3-Dichlorobenzene	ND 5.0	1,1,2-Trichloroethane	ND 5.0
1,4-Dichlorobenzene	ND 5.0	Trichloroethene	ND 5.0
1,1-Dichloroethane	ND 5.0	Trichlorofluoromethane	ND 5.0
1,2-Dichloroethane	ND 5.0	Vinyl Chloride	ND 10.0
1,1-Dichloroethene	ND 5.0	Xylenes	ND 5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/27/88

LAB. NO.: 2852-2

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-6-1-24 Lift Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit		Compound	Detection Limit	
	ug/kg	ug/kg		ug/kg	ug/kg
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	ND	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-17

DATE ANALYZED: 05/07/88

SAMPLE I.D.: C-6-1-49 Duplicate

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Detection Limit	Compound	Detection Limit		
ug/kg	ug/kg	ug/kg	ug/kg		
Acetone	ND	50.0	trans-1,2-Dichloroethene	ND	5.0
Benzene	ND	5.0	1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
Bromomethane	ND	10.0	Ethyl Benzene	ND	5.0
Carbon Tetrachloride	ND	5.0	Methyl Ethyl Ketone	900	50.0
Chlorobenzene	ND	5.0	Methylene Chloride	ND	5.0
Chloroethane	ND	10.0	Styrene	ND	5.0
Chloroform	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Chloromethane	ND	10.0	Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0	Toluene	ND	5.0
1,2-Dichlorobenzene	ND	5.0	1,1,1-Trichloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0	1,1,2-Trichloroethane	ND	5.0
1,4-Dichlorobenzene	ND	5.0	Trichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0	Trichlorofluoromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	Vinyl Chloride	ND	10.0
1,1-Dichloroethene	ND	5.0	Xylenes	ND	5.0

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel

Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/22/88

DATE SAMPLED: 04/21/88

LAB. NO.: 1735-1

DATE ANALYZED: 04/27/88

SAMPLE I.D.: C-4-1-4 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Percent Recovery</u>	<u>Compound</u>	<u>Percent Recovery</u>
Acetone	125	trans-1,2-Dichloroethene	85
Benzene	125	1,2-Dichloropropane	143
Bromodichloromethane	137	cis-1,3-Dichloropropene	146
Bromoform	151	trans-1,3-Dichloropropene	137
Bromomethane	74	Ethyl Benzene	89
Carbon Tetrachloride	102	Methyl Ethyl Ketone	114
Chlorobenzene	94	Methylene Chloride	104
Chloroethane	91	1,1,2,2-Tetrachloroethane	158
Chloroform	111	Tetrachloroethene	143
Chloromethane	71	Toluene	97
Dibromochloromethane	139	1,1,1-Trichloroethane	105
1,2-Dichlorobenzene	110	1,1,2-Trichloroethane	147
1,3-Dichlorobenzene	95	Trichloroethene	110
1,4-Dichlorobenzene	99	Trichlorofluoromethane	73
1,1-Dichloroethane	115	Vinyl Chloride	76
1,2-Dichloroethane	143	Xylenes	93
1,1-Dichloroethene	76		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/26/88

DATE SAMPLED: 04/25/88

LAB. NO.: 1743-11

DATE ANALYZED: 04/28/88

SAMPLE I.D.: C-9-1-16 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Percent Recovery	Compound	Percent Recovery
Acetone	93	trans-1,2-Dichloroethene	99
Benzene	134	1,2-Dichloropropane	137
Bromodichloromethane	132	cis-1,3-Dichloropropene	125
Bromoform	124	trans-1,3-Dichloropropene	126
Bromomethane	82	Ethyl Benzene	100
Carbon Tetrachloride	124	Methyl Ethyl Ketone	75
Chlorobenzene	100	Methylene Chloride	108
Chloroethane	105	1,1,2,2-Tetrachloroethane	115
Chloroform	133	Tetrachloroethene	99
Chloromethane	93	Toluene	103
Dibromochloromethane	120	1,1,1-Trichloroethane	120
1,2-Dichlorobenzene	118	1,1,2-Trichloroethane	118
1,3-Dichlorobenzene	111	Trichloroethene	108
1,4-Dichlorobenzene	114	Trichlorofluoromethane	97
1,1-Dichloroethane	136	Vinyl Chloride	99
1,2-Dichloroethane	157	Xylenes	101
1,1-Dichloroethene	89		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 04/29/88

DATE SAMPLED: 04/29/88

LAB. NO.: 2852-10

DATE ANALYZED: 05/02/88

SAMPLE I.D.: C-7-1-32 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

<u>Compound</u>	<u>Percent Recovery</u>	<u>Compound</u>	<u>Percent Recovery</u>
Acetone	126	trans-1,2-Dichloroethene	89
Benzene	125	1,2-Dichloropropane	130
Bromodichloromethane	137	cis-1,3-Dichloropropene	136
Bromoform	157	trans-1,3-Dichloropropene	131
Bromomethane	71	Ethyl Benzene	92
Carbon Tetrachloride	121	Methyl Ethyl Ketone	119
Chlorobenzene	93	Methylene Chloride	104
Chloroethane	89	1,1,2,2-Tetrachloroethane	130
Chloroform	128	Tetrachloroethene	103
Chloromethane	75	Toluene	96
Dibromochloromethane	131	1,1,1-Trichloroethane	115
1,2-Dichlorobenzene	123	1,1,2-Trichloroethane	128
1,3-Dichlorobenzene	110	Trichloroethene	106
1,4-Dichlorobenzene	112	Trichlorofluoromethane	109
1,1-Dichloroethane	126	Vinyl Chloride	84
1,2-Dichloroethane	167	Xylenes	96
1,1-Dichloroethene	79		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

JP/EL:mel

Eric Lu, Ph.D.
Environmental Chemist

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

CLIENT: Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

DATE REPORTED: 06/08/88

DATE RECEIVED: 05/06/88

DATE SAMPLED: 05/04/88

LAB. NO.: 2875-11

DATE ANALYZED: 05/07/88

SAMPLE I.D.: C-4-3-49 Spike

REPORT OF GC/MS ANALYSIS FOR VOLATILE ORGANICS IN SOIL (EPA 8240)

Compound	Percent Recovery	Compound	Percent Recovery
Acetone	98	trans-1,2-Dichloroethene	82
Benzene	126	1,2-Dichloropropane	144
Bromodichloromethane	154	cis-1,3-Dichloropropene	165
Bromoform	190	trans-1,3-Dichloropropene	147
Bromomethane	61	Ethyl Benzene	85
Carbon Tetrachloride	125	Methyl Ethyl Ketone	126
Chlorobenzene	88	Methylene Chloride	112
Chloroethane	81	1,1,2,2-Tetrachloroethane	152
Chloroform	129	Tetrachloroethene	109
Chloromethane	52	Toluene	90
Dibromochloromethane	154	1,1,1-Trichloroethane	120
1,2-Dichlorobenzene	115	1,1,2-Trichloroethane	151
1,3-Dichlorobenzene	101	Trichloroethene	99
1,4-Dichlorobenzene	104	Trichlorofluoromethane	78
1,1-Dichloroethane	126	Vinyl Chloride	63
1,2-Dichloroethane	187	Xylenes	90
1,1-Dichloroethene	70		

ug/kg = ppb

* = less than

ND = Not detected at or above the concentration of the detection limit.

Respectfully submitted,

J.G. Patel, M.S.
Environmental Chemist

Eric Lu, Ph.D.
Environmental Chemist

JP/EL:mel

APPENDIX F

LABORATORY REPORTS OF SAMPLES ANALYZED FOR BNA

TRENCH B

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

June 15, 1988

Lab No.: 3437

RECEIVED 5

WENCK ANALYSTS INC.

JUN 17 1988

Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

Attention: Glen

Dear Glen:

RE: SOIL ANALYSES - EPA 8270

Attached are the results of the analyses performed on your soil samples received on June 2, 1988. The samples have been described, as received, along with the data.

Please note that the analyses was performed by West Coast Analytical Laboratories, Inc.

FGL Sample Description

3437-7

3437-8

3437-9

Bermite Sample Description

WB 7-4-56 5/28/88

WB 7-4-60 6/01/88

WB 3-3-60 6/02/88

If you have any questions, please call or write.

Very truly yours,
FGL ENVIRONMENTAL, INC.

J.G. Patel
J.G. Patel, M.S.
Environmental Chemist

JP/mel

June 10, 1988

FRUIT GROWERS LAB, INC.
853 Corporation Street
Santa Paula, CA 93060

Attn: Martha Luna-Hamblin

JOB NO. 9805

WCAS

**WEST COAST
ANALYTICAL
SERVICE, INC.**

ANALYTICAL CHEMISTS

LABORATORY REPORT

Samples Received: Three (3) soil samples

Date Received: 6-6-88

Purchase Order No: Lab # 3437,7-8-9

The samples were analyzed as follows:

<u>Samples Analyzed</u>	<u>Analysis</u>	<u>Results</u>
Three soils	Semi-Volatile Organics by EPA 8270	Data Sheets

Page 1 of 1

Mary Stordal
Mary Stordal
Analytical Chemist

Martha
D. J. Northington, Ph.D.
Technical Director

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-7

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88
DATE EXTRACTED: 06/06/88
DATE ANALYZED: 06/08/88
SAMPLE AMOUNT: 30G:1MLRUN NUMBER: 9805B2
MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
83-32-9	ACENAPHTHENE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
56-55-3	BENZO(A) ANTHRACENE	ND	30.
205-99-2	BENZO(B & K) FLUORANTHENES	ND	30.
191-24-2	BENZO(GHI) PERYLENE	ND	30.
50-32-8	BENZO(A) PYRENE	ND	30.
65-85-0	BENZOIC ACID	ND	200.
100-51-6	BENZYL ALCOHOL	39.	30.
111-91-1	BIS (2-CHLOROETHOXY) METHANE	ND	30.
111-44-4	BIS (2-CHLOROETHYL) ETHER	ND	30.
39638-32-9	BIS (2-CHLOROISOPROPYL) ETHER	ND	30.
117-81-7	BIS (2-ETHYLHEXYL) PHTHALATE	ND	200.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
218-01-9	CHRYSENE	ND	30.
53-70-3	DIBENZO(A, H) ANTHRACENE	ND	30.
132-64-9	DIBENZOFURAN	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
84-66-2	DIETHYL PHTHALATE	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	30.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
86-73-7	FLUORENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-7

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88

RUN NUMBER: 9805B2

DATE EXTRACTED: 06/06/88

DATE ANALYZED: 06/08/88

SAMPLE AMOUNT: 30G:1ML

MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
118-74-1	HEXACHLOROBENZENE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
193-39-5	INDENO(1,2,3-CD) PYRENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
91-20-3	NAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
99-09-2	3-NITROANILINE	ND	200.
100-01-6	4-NITROANILINE	ND	200.
98-95-3	NITROBENZENE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
108-95-2	PHENOL	ND	30.
129-00-0	PYRENE	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-7

TENTATIVELY IDENTIFIED COMPOUNDS

UNITS: UG/KG (PPB)
APPROXIMATE

COMPOUND NAME	FRACTION	CONCENTRATION
1 STYRENE	BNA	6000.
2 UNIDENTIFIED COMPOUND	BNA	9000.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-8

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88
DATE EXTRACTED: 06/06/88
DATE ANALYZED: 06/08/88
SAMPLE AMOUNT: 30G:5MLRUN NUMBER: 9805B3
MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
83-32-9	ACENAPHTHENE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	200.
120-12-7	ANTHRACENE	ND	200.
56-55-3	BENZO(A)ANTHRACENE	ND	200.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	200.
191-24-2	BENZO(GHI)PERYLENE	ND	200.
50-32-8	BENZO(A)PYRENE	ND	200.
65-85-0	BENZOIC ACID	ND	800.
100-51-6	BENZYL ALCOHOL	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	200.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	200.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	800.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	200.
85-68-7	BUTYL BENZYL PHTHALATE	ND	200.
106-47-8	4-CHLOROANILINE	ND	200.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
95-57-8	2-CHLOROPHENOL	ND	200.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	200.
218-01-9	CHRYSENE	ND	200.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
84-74-2	DI-N-BUTYL PHTHALATE	ND	200.
95-50-1	1,2-DICHLOROBENZENE	ND	200.
541-73-1	1,3-DICHLOROBENZENE	ND	200.
106-46-7	1,4-DICHLOROBENZENE	ND	200.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	300.
120-33-2	2,4-DICHLOROPHENOL	ND	200.
84-66-2	DIETHYL PHTHALATE	ND	200.
105-67-9	2,4-DIMETHYLPHENOL	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	800.
51-28-5	2,4-DINITROPHENOL	ND	800.
121-14-2	2,4-DINITROTOLUENE	ND	200.
606-20-2	2,6-DINITROTOLUENE	ND	200.
117-84-0	DI-N-OCTYL PHTHALATE	ND	200.
206-44-0	FLUORANTHENE	ND	200.
86-73-7	FLUORENE	ND	200.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-8

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88
DATE EXTRACTED: 06/06/88
DATE ANALYZED: 06/08/88
SAMPLE AMOUNT: 30G:5MLRUN NUMBER: 9805B3
MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
118-74-1	HEXACHLOROBENZENE	ND	200.
87-68-3	HEXACHLOROBUTADIENE	ND	200.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	200.
67-72-1	HEXACHLOROETHANE	ND	200.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	200.
78-59-1	ISOPHORONE	ND	200.
91-57-6	2-METHYLNAPHTHALENE	ND	200.
95-48-7	2-METHYLPHENOL	ND	200.
106-44-5	4-METHYLPHENOL	ND	200.
91-20-3	NAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	800.
99-09-2	3-NITROANILINE	ND	800.
100-01-6	4-NITROANILINE	ND	800.
98-95-3	NITROBENZENE	ND	200.
88-75-5	2-NITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	800.
86-30-6	N-NITROSODIPHENYLAMINE	ND	200.
621-64-7	N-NITROSODIPROPYLAMINE	ND	200.
87-86-5	PENTACHLOROPHENOL	ND	800.
85-01-8	PHENANTHRENE	ND	200.
108-95-2	PHENOL	ND	200.
129-00-0	PYRENE	ND	200.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	200.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	800.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	200.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-8

TENTATIVELY IDENTIFIED COMPOUNDS

UNITS: UG/KG (PPB)
APPROXIMATE

COMPOUND NAME	FRACTION	CONCENTRATION
1 STYRENE	BNA	50000.
2 C20-C34 HYDROCARBON MATRIX	BNA	50000.
3 UNIDENTIFIED COMPOUND	BNA	100000.

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

TRENCH C

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

June 15, 1988
Lab No.: 3437

RECEIVED 5
WENCK ENVIRONMENTAL INC.

JUN 17 1988

Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

Attention: Glen

Dear Glen:

RE: SOIL ANALYSES - EPA 8270

Attached are the results of the analyses performed on your soil samples received on June 2, 1988. The samples have been described, as received, along with the data.

Please note that the analyses was performed by West Coast Analytical Laboratories, Inc.

FGL Sample Description

3437-7

3437-8

3437-9

Bermite Sample Description

WB 7-4-56 5/28/88

WB 7-4-60 6/01/88

WB 3-3-60 6/02/88

If you have any questions, please call or write.

Very truly yours,
FGL ENVIRONMENTAL, INC.


J.G. Patel, M.S.
Environmental Chemist

JP/me1

June 10, 1988

FRUIT GROWERS LAB, INC.
853 Corporation Street
Santa Paula, CA 93060

Attn: Martha Luna-Hamblin

JOB NO. 9805

WCAS

**WEST COAST
ANALYTICAL
SERVICE, INC.**

ANALYTICAL CHEMISTS

LABORATORY REPORT

Samples Received: Three (3) soil samples

Date Received: 6-6-88

Purchase Order No: Lab # 3437,7-8-9

The samples were analyzed as follows:

<u>Samples Analyzed</u>	<u>Analysis</u>	<u>Results</u>
Three soils	Semi-Volatile Organics by EPA 8270	Data Sheets

Page 1 of 1

Mary Stordal
Mary Stordal
Analytical Chemist

D. J. Northington
D. J. Northington, Ph.D.
Technical Director

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-9

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88
DATE EXTRACTED: 06/06/88
DATE ANALYZED: 06/08/88
SAMPLE AMOUNT: 30G:1MLRUN NUMBER: 9805B4
MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
83-32-9	ACENAPHTHENE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
56-55-3	BENZO(A) ANTHRACENE	ND	30.
205-99-2	BENZO(B & K) FLUORANTHENES	ND	30.
191-24-2	BENZO(GHI) PERYLENE	ND	30.
50-32-8	BENZO(A) PYRENE	ND	30.
65-85-0	BENZOIC ACID	ND	200.
100-51-6	BENZYL ALCOHOL	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	200.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
218-01-9	CHRYSENE	ND	30.
53-70-3	DIBENZO(A, H) ANTHRACENE	ND	30.
132-64-9	DIBENZOFURAN	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
84-66-2	DIETHYL PHTHALATE	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	30.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
86-73-7	FLUORENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-9

ANALYSIS TYPE: SEMI-VOLATILE ORGANICS (EPA 625/8270)

DATE RECEIVED: 06/06/88

RUN NUMBER: 9805B4

DATE EXTRACTED: 06/06/88

DATE ANALYZED: 06/08/88

SAMPLE AMOUNT: 30G:1ML

MATRIX: SOIL

UNITS: UG/KG (PPB)

CAS #	COMPOUND	CONCENTRATION	DET LIMIT
118-74-1	HEXACHLOROBENZENE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
193-39-5	INDENO(1, 2, 3-CD) PYRENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
91-20-3	NAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
99-09-2	3-NITROANILINE	ND	200.
100-01-6	4-NITROANILINE	ND	200.
98-95-3	NITROBENZENE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
108-95-2	PHENOL	ND	30.
129-00-0	PYRENE	ND	30.
120-82-1	1, 2, 4-TRICHLOROBENZENE	ND	30.
95-95-4	2, 4, 5-TRICHLOROPHENOL	ND	200.
88-06-2	2, 4, 6-TRICHLOROPHENOL	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FRUIT GROWERS LAB
WCAS JOB #: 9805

SAMPLE: 3437-9

TENTATIVELY IDENTIFIED COMPOUNDS

UNITS: UG/KG (PPB)
APPROXIMATE

COMPOUND NAME	FRACTION	CONCENTRATION
1 C20-C34 HYDROCARBON MATRIX	BNA	10000.

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

RECEIVED BY
WENCK ASSOCIATES INC.

MAY 25 1988

May 21, 1988
Lab No.: 2875-18

Bermite Division of Whittaker
22116 West Soledad Canyon Road
Saugus, California 91350

Attention: Glen

Dear Glen:

RE: SOIL ANALYSES

Attached are the results of the analyses performed on your soil sample received on May 6, 1988. The sample has been described, as received, along with the data.

Please note that the analyses was performed by West Coast Analytical Services, Inc.

If you have any questions, please call or write.

Very truly yours,
FGL ENVIRONMENTAL, INC.

J.G. Patel, M.S.
Environmental Chemist

JP:mel

May 18, 1988

FRUIT GROWERS LAB
853 Corporation Street
Santa Paula, CA 93060

Attn: Martha Luna

JOB NO. 9585

WCAS

**WEST COAST
ANALYTICAL
SERVICE, INC.**

ANALYTICAL CHEMISTS

LABORATORY REPORT

Samples Received: One (1) soil sample in duplicate

Date Received: 5-12-88

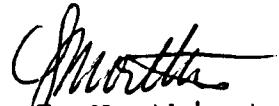
Purchase Order No: Lab # 2875-1B

The sample was analyzed as follows:

<u>Samples Analyzed</u>	<u>Analysis</u>	<u>Results</u>
C-3-2-57	Semi-Volatile Organics by EPA 8270	Data Sheets

Page 1 of 1


Michael Shelton
Senior Chemist


D. J. Northington, Ph.D.
Technical Director

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FGL INC.

SAMPLE: C-3-2-57

ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	05/12/88	GCMS FILENAME:	9585B2
LEVEL:	LOW	MATRIX:	SOIL
DATE EXTRACTED:	05/17/88	DATE ANALYZED:	05/17/88
STANDARD ID:	BNAZ329	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
83-32-9	ACENAPHTHENE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
56-55-3	BENZO(A) ANTHRACENE	ND	30.
205-99-2	BENZO(B & K) FLUORANTHENES	ND	30.
191-24-2	BENZO(GHI) PERYLENE	ND	30.
50-32-8	BENZO(A) PYRENE	ND	30.
65-85-0	BENZOIC ACID	ND	200.
100-51-6	BENZYL ALCOHOL	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	200.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	88.	30.
106-47-8	4-CHLOROANILINE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
218-01-9	CHRYSENE	ND	30.
53-70-3	DIBENZO(A, H) ANTHRACENE	ND	30.
132-64-9	DIBENZOFURAN	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
84-66-2	DIETHYL PHTHALATE	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	30.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
86-73-7	FLUORENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FGL INC.

SAMPLE: C-3-2-57

ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	05/12/88	GCMS FILENAME:	9585B2
LEVEL:	LOW	MATRIX:	SOIL
DATE EXTRACTED:	05/17/88	DATE ANALYZED:	05/17/88
STANDARD ID:	BNAZ329	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
118-74-1	HEXACHLOROBENZENE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
193-39-5	INDENO(1,2,3-CD) PYRENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
91-57-6	2-METHYLNAPHTHALENE	100.	30.
95-48-7	2-METHYLPHENOL	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
91-20-3	NAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
99-09-2	3-NITROANILINE	ND	200.
100-01-6	4-NITROANILINE	ND	200.
98-95-3	NITROBENZENE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
108-95-2	PHENOL	ND	30.
129-00-0	PYRENE	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: FGL INC.
SAMPLE: C-3-2-57

TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION UG/KG (PPB)
1 1-METHYLNAPHTHALENE	BNA	200.
2 ACETOPHENONE	BNA	400.
3 UNIDENTIFIED COMPOUND	BNA	300.
4 C20-C34 HYDROCARBON MATRIX	BNA	70000.

Data Reporting Qualifiers

- Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.
- ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.
- TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

APPENDIX G

SAFETY REPORTS

JOHN J. PELOQUIN
Consultant
HEALTH & SAFETY
ENVIRONMENTAL AFFAIRS

RECEIVED BY
WENCK ASSOCIATES INC.

MAY 23 1988

May 18, 1988

Wenck Associates, Inc.
832 Twelve Oaks Center
15500 Wayzata Blvd.
Wayzata, MN 55391-1418

attn: Norman C. Wenck, Project Manager

Re: Site Activities Report - April 18, 1988 to May 18, 1988
Soil Characterization
Bermite Division, Whittaker Corporation
Saugus, CA

Dear Mr. Wenck:

The following comments constitute the Site Safety Report for the referenced project for the period of April 18, through May 18, 1988. As site safety officer, it has been my responsibility to observe the activities and assure conformance with the Revised RCRA Closure Plan.

Trench C activity commenced on April 18, 1988 and was completed by May 6, 1988. Trench B activity was started on May 9, 1988 and continues. Although no significant readings of organic vapors above background levels have been detected in the workers breathing zones, some workers occasionally wore 3M Brand Type 9725, organic vapor respirators. The primary purpose of this protection was to filter out nuisance odors. Qualitative fitting was performed prior to respirator use.

Based on my daily observations and safety meetings, all site activities have been performed in conformance with the Revised Closure Plan and sound safety and health practices.

Sincerely,



John J. Peloquin
Site Safety Officer

jjp/tsb

cc Gordon Louttit

APPENDIX H

PHOTOGRAPHS